MOJAVE DESERT
AIR QUALITY MANAGEMENT DISTRICT

Federal Operating Permit Number: 005400246

For: DUCOMMUN AEROSTRUCTURES

Facility: EL MIRAGE PLANT

Issued Pursuant to MDAQMD Regulation XII
Effective Date: March 17, 2009

• SEE TITLE V PAGE 2 FOR PERMIT REVISION SUMMARY •

This Federal Operating Permit Expires On:
March 17, 2014

Issued By: Eldon Heaston
Executive Director
Air Pollution Control Officer

14306 PARK AVENUE, VICTORVILLE, CALIFORNIA 92392
PHONE (760) 245-1661
FAX (760) 245-2022

1

HISTORY OF PERMIT REVISIONS

March 5, 2012 Administrative Permit Amendment described as follows:
Functionally identical replacement of chemical milling tank B-7 (District Permit T002521). Tank B-7 is being replaced with a like replacement capable of accommodating a change in the orientation of the part to be dipped into the chemical milling etchant tank. No further changes and no increase in emissions expected. Revised Part I and III accordingly. Reformatted cover.
Changes made by C. Anderson

TABLE OF CONTENTS

PART I
INTRODUCTORY INFORMATION

FACILITY IDENTIFYING INFORMATION:

Owner/Company Name:	DUCOMMUN AEROSTRUCTURES
Owner Mailing Address:	DUCOMMUN AEROSTRUCTURES 4001 El Mirage Road Adelanto, CA 92301
Facility Names:	DUCOMMUN AEROSTRUCTURES
Facility Location:	4001 El Mirage Road Adelanto, CA 92301
Mailing Address:	DUCOMMUN AEROSTRUCTURES 4001 El Mirage Road Adelanto, CA 92301
MDAQMD Federal Operating Permit Number:	005400246
MDAQMD Company Number:	0054
MDAQMD Facility Number:	00246
Responsible Official: Title: Phone Number:	Steve Woodhouse Vice President, Operations DUCOMMUN AEROSTRUCTURES 760-246-4191, ext. 5212
Facility "Site" Contacts: Phone/Fax/Email:	Mr. Kent Christensen Sr. Environmental Engineer 760-246-4191, ext. 4111 FAX (760) 388-4221 kchristensen@ducommun.com
Facility "Off Site" Contacts: Phone Number:	none
Nature of Business: SIC Code: Facility Location:	Aerospace Chemical Milling Facility 3728 Aircraft part and auxiliary equipment, n.e.c. UTM (Km) 447E / 3828N

FACILITY & PROCESS DESCRIPTION:

DUCOMMUN AEROSTRUCTURES chemically mills aerospace components. Caustic soda, sodium sulfide, hydrofluoric acid, nitric acid, hydrochloric acid, and phosphoric acid are used to shape aluminum, titanium and steel within extremely narrow tolerance limits. The milling process consists generally of six sequential operations: cleaning, masking, scribing, etching, stripping, and benching.

The process sequence begins by cleaning the parts with solvent solution. The specific solvent choice depends on the type of surface contamination. Next, the parts to be milled are covered with a Maskant (i.e., a corrosion-resistant cover coat). This is accomplished either by spraying the parts with Maskant, or by placing the parts in a dip tank containing the Maskant. A pattern is then scribed onto the masked parts using a template and knife. After scribing the pattern, the scribed portion of the Maskant is peeled off to expose the areas that are to be etched. Once this is done, the parts are immersed in an etching solution for a predetermined length of time. After each etching operation, parts are rinsed thoroughly with tap water. The remaining Maskant then is stripped off the parts by hand. Any benching operations, including the smoothing of uneven edges, blending of welds, removal of areas of insufficient etching, etc., are completed at this time. Finally, the parts are inspected and prepared for shipment.

MDAQMD PERMIT LISTING; SEE FOLLOWING TABLE:

Permit #	Application #	Permit Status	Permit Type	Permit Description
B001743	00002567	PTO	Basic	OVEN-PAINT BAKING
B002518	00002568	PTO	Basic	EVAPORATIVE CRYSTALLIZER
B003421	00002563	PTO	Basic	PILOT SCALE SPRAY ETCHING CABINET
B003704	00002570	PTO	Basic	BOILER
B003705	00002572	PTO	Basic	BOILER
B005033	00002575	PTO	Basic	SLUDGE DRYER AND SCRUBBER
C001570	00002598	PTO	Air Pollution Control Device	SCRUBBER - PRIMARY FUME
C001571	00002595	PTO	Air Pollution Control Device	SCRUBBER - PRIMARY FUME
C001591	00002588	PTO	Air Pollution Control Device	SCRUBBER - FUME
C001747	00002592	PTO	Air Pollution Control Device	SCRUBBER - FUME
C002571	00002597	PTO	Air Pollution Control Device	SCRUBBER - PRIMARY FUME
C002820	00002584	PTO	Air Pollution Control Device	SCRUBBER - FUME
C002821	00002578	PTO	Air Pollution Control Device	SCRUBBER - FUME
C009235		ATC	Air Pollution Control Device	SOIL REMEDIATION EQUIPMENT
S000393	00002562	PTO	Spray Booth	PAINT SPRAY BOOTH
S010071		ATC	Spray Booth	SPRAY BOOTH, EPOXY PRIMER
T000389	00002517	PTO	Tanks (or Silos)	PROCESS TANK - MIXED ACID (HF & HNO3), MILLING TITAINIUM
T000391	00002522	PTO	Tanks (or Silos)	PROCESS TANK- -NITRIC ACID MILLING TITANIUM
T000394	00002525	PTO	Tanks (or Silos)	PROCESS TANK - HEATED CAUSTIC FOR MILLING

				ALUMINUM
T000395	00002527	PTO	Tanks (or Silos)	PROCESS TANK - HEATED CAUSTIC FOR MILLING ALUMINUM
T000564	00002530	PTO	Tanks (or Silos)	PAINT DIP TANK (MASKANT)
T001575	00002521	PTO	Tanks (or Silos)	PROCESS TANK - MIXED ACID (HF 7 HNO3) FOR MILLING TITANIUM
T001596	00002538	PTO	Tanks (or Silos)	STORAGE TANK - HYDROCHLORIC ACID
T002062	00002541	PTO	Tanks (or Silos)	STORAGE TANK - FOR MIXED ACID (HF, HCl & HNO3)
T002063	00002543	PTO	Tanks (or Silos)	STORAGE TANK - MIXED ACIDS (HF, HCl & HNO3)
T002065	00002545	PTO	Tanks (or Silos)	STORAGE TANK - MIXED ACIDS (HF, HCl AND HNO3)
T002069	00002546	PTO	Tanks (or Silos)	STORAGE TANK - MIXED ACIDS (HF, HCl AND HNO3)
T002489	00003688	PTO	Tanks (or Silos)	STORAGE TANK- MIXED ACIDS (HF & HNO3)
T002490	00003689	PTO	Tanks (or Silos)	STORAGE TANK - MIXED ACIDS (CONCENTRATED HF AND NITRIC)
T002491	00003690	PTO	Tanks (or Silos)	STORAGE TANK (HF, HNO3 AND HCL)
T002492	00003691	PTO	Tanks (or Silos)	STORAGE TANK (CONCENTRATED HF, HNO3 & HCL)
T002493	00003692	PTO	Tanks (or Silos)	PROCESS TANK: MIXED ACIDS (HF, HCL, NITRIC)
T002494	00003693	PTO	Tanks (or Silos)	PROCESS TANK: MIXED ACIDS (HF, HCL AND NITRIC)
T002495	00003694	PTO	Tanks (or Silos)	PROCESS TANK: MIXED ACIDS (HF, HCL AND NITRIC)
T002496	00002506	PTO	Tanks (or Silos)	PROCESS TANK - HYDROCHLORIC ACID FOR PICKLING STEEL
T002497	00003696	PTO	Tanks (or Silos)	PROCESS TANK; MIXED ACID (HF, HCL AND NITRIC)
T002498	00003697	PTO	Tanks (or Silos)	PROCESS TANK: MIXED ACID (HF, HCL AND NITRIC)
T002499	00003699	PTO	Tanks (or Silos)	PROCESS TANK: MIXED ACID (HF, HCL AND NITRIC)
T002500	00002509	PTO	Tanks (or Silos)	PROCESS TANK - HYDROCHLORIC ACID FOR PICKLING STEEL
T002503	00003685	PTO	Tanks (or Silos)	STORAGE TANK - CAUSTIC SODA
T002504	00003686	PTO	Tanks (or Silos)	STORAGE TANK - CAUSTIC SODA
T002508	00003700	PTO	Tanks (or Silos)	STORAGE TANK: CAUSTIC SODA AND WASTE WATER
T002509	00003701	PTO	Tanks (or Silos)	STORAGE TANK: MIXED ACID (HF, HCL AND NITRIC)
T002519	00003687	PTO	Tanks (or Silos)	PROCESS TANK- HF AND HNO3 MILLING
T002520	00003702	PTO	Tanks (or Silos)	STORAGE TANK: HF AND NITRIC ETCHANT SOLUTION
T002521	00003704	PTO	Tanks (or Silos)	PROCESS TANK: HF AND NITRIC FOR CHEMICAL MILLING OF TITANIUM
T003696	00002547	PTO	Tanks (or Silos)	CLEANING TANK - NITRIC ACID
T003697	00002548	PTO	Tanks (or Silos)	CLEANING TANK - SULFURIC ACID/POTASSIUM DICHROMATE
T003698	00002549	PTO	Tanks (or Silos)	CLEANING TANK - HYDROCHLORIC ACID/FERRIC CHLORIDE
T003699	00002551	PTO	Tanks (or Silos)	STORAGE TANK - MIXED ACIDS (HF, HCl & HNO3)
T003700	00002554	PTO	Tanks (or Silos)	STORAGE TANK - MIXED ACIDS (HF, HCl & HNO3)
T003701	00002556	PTO	Tanks (or Silos)	STORAGE TANK - MIXED ACIDS (HF, HCl & HNO3)
T003702	00002559	PTO	Tanks (or Silos)	STORAGE TANK FOR MIXED ACIDS (HF, HCL & HNO3)
T003703	00002561	PTO	Tanks (or Silos)	STORAGE TANKS FOR MIXED ACIDS (HF, HCL & HNO3)
T004611	00002504	PTO	Tanks (or Silos)	STORAGE TANKS (EMERGENCY USE)
T005198	00001537	PTO	Tanks (or Silos)	PROCESS TANK, HYDROFLUORIC AND NITRIC ACID, FOR CHEMICAL MILLING TITANIUM
T005199	00001536	PTO	Tanks (or Silos)	PROCESS TANK NITRIC ACID, FOR PICKLING TITANIUM
T005200	00001538	PTO	Tanks (or Silos)	PROCESS TANK, HYDROFLUORIC AND NITRIC ACID, FOR CHEMICAL MILLING TITANIUM
T005201	00001535	PTO	Tanks (or Silos)	PROCESS TANK NITRIC ACID, FOR PICKLING TITANIUM
T009802		PTO	Tanks (or Silos)	PROCESS TANKS A-3, A-4, A-5 FOR ALODINE DIP COATING
T010040		ATC	Tanks (or Silos)	MASKANT DIP TANK

PART II
FACILITYWIDE APPLICABLE REQUIREMENTS; EMISSIONS LIMITATIONS; MONITORING, RECORDKEEPING, REPORTING AND TESTING REQUIREMENTS; COMPLIANCE CONDITIONS; COMPLIANCE PLANS

A. REQUIREMENTS APPLICABLE TO ENTIRE FACILITY AND EQUIPMENT:

1. A permit is required to operate this facility.
[Rule 203 - *Permit to Operate*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

2. The equipment at this facility shall not be operated contrary to the conditions specified in the District permit to operate.
[Rule 203 - *Permit to Operate*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

3. The Air Pollution Control Officer may impose written conditions on any permit.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

4 Commencing work or operation under a permit shall be deemed acceptance of all the conditions so specified.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

5. Posting of the permit to operate is required on or near the equipment or as otherwise approved by the APCO/District.
[Rule 206 - *Posting of Permit to Operate*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

6. Owner/Operator shall not willfully deface, alter, forge or falsify any permit issued under District rules.
[Rule 207 - *Altering or Falsifying of Permit*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) and 52.220(c)(31)(vi)(C) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

7. Permits are not transferable.
[Rule 209 - *Transfer and Voiding of Permit*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

8. The equipment at this facility shall not require a District permit or be listed on the Title V permit if such equipment is listed in Rule 219 and meets the applicable criteria contained in Rule 219 (B). However, any exempted insignificant activities/equipment are still subject to all applicable facility-wide requirements.
[**SIP Pending:** Rule 219 - *Equipment Not Requiring a Written Permit* as Amended 12/21/94; Prior version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237]

9. The Owner/Operator of this facility shall obtain a Federal Operating Permit for operation of this facility.
[Rule 221 - *Federal Operating Permit Requirement*; Version in SIP = Current, 40 CFR 52.220(c)(216)(i)(A)(2) - 02/05/96 61 FR 4217]

10. Owner/Operator shall pay all applicable MDAQMD permit fees.
[Rule 301 - *Permit Fees;* Applicable Version = 10/23/94, Applicable via Title V Program interim approval 02/05/96 61 FR 4217]

11. Owner/Operator shall pay all applicable MDAQMD Title V permit fees.
[Rule 312 - *Fees for Federal Operating Permits;* Applicable Version = 10/23/94, Applicable via Title V Program interim approval 02/05/96 61 FR 4217]

12. Stack and point source visible emissions from this facility, of any air contaminant (including smoke) into the atmosphere, shall not equal or exceed Ringelmann No. 1 for a period or periods aggregating more than three minutes in any one hour:

    a. While any unit is fired on Public Utilities Commission grade natural gas, Periodic Monitoring for combustion equipment is not required to validate compliance with the Rule 401 Visible Emissions limit. However, the Owner/Operator shall comply with the recordkeeping requirements stipulated elsewhere in this permit regarding the logging of fuel type, amount and suppliers certification information.

    b. While any unit is fired on diesel fuel, Periodic Monitoring, in addition to required recordkeeping, is required to validate compliance with Rule 401 Visible Emissions limit as indicated below:

    i. Reciprocating engines equal or greater than 1000 horsepower, firing on only diesel with no restrictions on operation a visible emissions inspection is required every three (3) months.

    ii. Diesel Standby and emergency reciprocating engines using California low sulfur fuels require no additional monitoring for opacity.

    iii. Diesel/Distillate-Fueled Boilers firing on California low sulfur fuels require a visible emissions inspection after every 1 million gallons diesel combusted, to be counted cumulatively over a 5 year period.

    iv. On any of the above, if a visible emissions inspection documents opacity, an EPA Method 9 "Visible Emissions Evaluation" shall be completed within 3 working days, or during the next scheduled operating period if the unit ceases firing on diesel/distillate within the 3 working day time frame.

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
[Rule 401 - *Visible Emissions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 09/08/78 43 FR 40011; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(i)(B) - Periodic Monitoring Requirements]

13. Owner/Operator shall not burn any PUC quality natural gas fuel at this facility containing sulfur compounds in excess of 800 ppm calculated as hydrogen sulfide at standard conditions, or any diesel fuel having a sulfur content in excess of 0.5 percent by weight. Compliance with Rule 431 sulfur limit for PUC quality natural gas fuel shall be by the exclusive use of utility grade/pipeline quality natural gas. Records of natural gas supplier fuel quality/sulfur content limit shall be kept on-site for review by District, state or federal personnel at any time. Compliance with Rule 431 sulfur limit for diesel fuel shall be determined by keeping records of the diesel fuel supplier's fuel

analysis guarantee showing fuel sulfur content. The sulfur content of diesel fuel shall be determined by use of ASTM method D 2622-82, or (ASTM method D 2880-71, or equivalent).
[40 CFR 70.6 (a)(3)(i)(B) - Periodic Monitoring Requirements]
[Rule 431 - *Sulfur Content of Fuels*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 09/08/78 - 43 FR 40011; Current Rule Version = 07/25/77]

14. Emissions of fugitive dust from any transport, handling, construction or storage activity at this facility shall not be visible in the atmosphere beyond the property line of the facility.
[Rule 403 - *Fugitive Dust*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 09/08/78 43 FR 40011; Current Rule Version = 07/25/77]

15. Owner/Operator shall comply with the applicable requirements of Rule 403.2 unless an "Alternative PM_{10} Control Plan" (ACP) pursuant to Rule 403.2(G) has been approved. Construction/Demolition activities shall comply with a District approved Dust Control Plan.
[**SIP Pending:** Rule 403.2 - *Fugitive Dust Control for the Mojave Desert Planning Area* as adopted 7/22/96 and SIP submitted 10/18/96]

16. Owner/Operator shall not discharge into the atmosphere from this facility, particulate matter except liquid sulfur compounds, in excess of the concentration at standard conditions, shown in Rule 404, Table 404 (a).
    (a) Where the volume discharged is between figures listed in the table, the exact concentration permitted to be discharged shall be determined by linear interpolation.
    (b) This condition shall not apply to emissions resulting from the combustion of diesel or PUC quality natural gas fuels in steam generators or gas turbines.
    (c) For the purposes of this condition, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.
    [Rule 404 - *Particulate Matter Concentration*; Version in SIP = Current, 40 CFR 52.220(c)(42)(xiii)(A) - 12/21/78 43 FR 52489]

17. Owner/Operator shall not discharge into the atmosphere from this facility, solid particulate matter including lead and lead compounds in excess of the rate shown in Rule 405, Table 405(a).
    (a) Where the process weight per hour is between figures listed in the table, the exact weight of permitted discharge shall be determined by linear interpolation.
    (b) For the purposes of this condition emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.
    [Rule 405 - *Solid Particulate Matter, Weight*; Version in SIP = Current, 40 CFR 52.220(c)(42)(xiii)(A) - 12/21/78 43 FR 52489]

18. Owner/Operator shall not discharge into the atmosphere from this facility, from any single source of emissions whatsoever, Sulfur compounds, which would exist as a liquid or gas at standard conditions, calculated as sulfur dioxide (SO_2) greater than or equal to 500 ppm by volume.
[40 CFR 70.6 (a)(3)(i)(B) - Periodic Monitoring Requirements]
[Rule 406 - *Specific Contaminants*; Version in SIP = 07/25/77, 40 CFR 52.220(c)(42)(xiii)(A) - 12/21/78 43 FR 52489, Subpart (a) only; Current Rule Version = 02/20/79]

19. Owner/Operator shall not discharge into the atmosphere from this facility, carbon monoxide (CO) exceeding 2000 ppm measured on a dry basis, averaged over a minimum of 15 consecutive minutes.
    (a) The provisions of this condition shall not apply to emissions from internal combustion engines.

[Rule 407 - *Liquid and Gaseous Air Contaminants*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(C) - 09/08/78 43 FR 40011; Current Rule Version = 07/25/77]

20. Owner/Operator shall not build, erect, install or use any equipment at this facility, the use of which, without resulting in a reduction in the total release of air contaminants to the atmosphere, reduces or conceals an emission which would otherwise constitute a violation of Chapter 3 (commencing with Section 41700) of Part 4, of Division 26 of the Health and Safety Code or of District Rules.
    (a) This condition shall not apply to cases in which the only violation involved is of Section 41700 of the Health and Safety Code, or of District Rule 402.

[Rule 408 - *Circumvention*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(C) - 09/08/78 43 FR 40011; Current Rule Version = 07/25/77]

21. Owner/Operator shall not discharge into the atmosphere from this facility from the burning of fuel, combustion contaminants exceeding 0.23 gram per cubic meter (0.1 grain per cubic foot) of gas calculated to 12 percent of carbon dioxide (CO_2) at standard conditions averaged over a minimum of 25 consecutive minutes.

[Rule 409 - *Combustion Contaminants*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(C) - 09/08/78 43 FR 40011; Current Rule Version = 07/25/77]

22. APCO in his/her discretion, may refrain from enforcement action against an Owner/Operator of any equipment which has violated a technology-based emission limitation, including but not limited to conditions contained in any permit issued by the District establishing such emission limitation, provided that a Breakdown has occurred and:
    (a) Any breakdown which results in emissions exceeding a technology-based emission limitation is reported to the District within one hour of such breakdown or within one hour of the time a person knew or reasonably should have known of the occurrence of such breakdown; and
    (b) An estimate of the repair time is provided to the District as soon as possible after the report of the breakdown; and
    (c) All reasonable steps are immediately taken to minimize the levels of emissions and to correct the condition leading to the excess emissions.
    (d) The equipment is operated only until the end of a cycle or twenty-four (24) hours, whichever is sooner, at which time it shall be shut down for repairs unless a petition for an emergency variance has been filed with the clerk of the Hearing Board in accordance with Regulation V.
    (e) If the breakdown occurs outside normal District working hours the intent to file an emergency variance shall be transmitted to the District in a form and manner prescribed by the Air Pollution Control Officer.

[**SIP Pending:** Rule 430 - *Breakdown Provisions* as amended 12/21/94 and submitted 02/24/95]

23. Owner/Operator of this facility shall not discharge organic materials into the atmosphere from equipment in which organic solvents or materials containing organic solvents are used, unless such emissions have been reduced by at least 85% or to the following:
    (a) Organic materials that come into contact with flame or are baked, heat cured or heat polymerized, are limited to 1.4 kilograms (3.1 pounds) per hour not to exceed 6.5 kilograms (14.3 pounds) per day.
    (b) Organic materials emitted into the atmosphere from the use of photochemically reactive solvents are limited to 3.6 kilograms (7.9 pounds) per hour, not to exceed 18 kilograms (39.6 pounds) per day, except as provided in Rule 442, subsection (a)(1). All organic materials emitted for a drying period of 12 hours following their application shall be included in this

limit.

(c) Organic materials emitted into the atmosphere from the use of non-photochemically reactive solvents are limited to 36.8 kilograms (81 pounds) per hour not to exceed 272 kilograms (600 pounds) per day. All organic materials emitted for a drying period of 12 hours following their application shall be included in this limit.

(d) The provisions of this condition shall not apply to the manufacture of organic solvents, or the transport or storage of organic solvents, or the transport or storage of materials containing organic solvents.

(e) The provisions of this condition shall not apply to the use of equipment for which other requirements are specified by Rules 461, 462, 463, and 464 or which are exempt from air pollution control requirements by said rules.

[Rule 442 - *Usage of Solvents*; Version in SIP = Current, 40 CFR 52.220(c)(51)(xii)(B) - 06/09/82 47 FR 25013]

24. Owner/Operator of this facility shall comply with the Organic Solvent Degreasing Operations requirements of Rule 1104 when engaged in wipe cleaning, cold solvent cleaning and/or vapor cleaning (degreasing) operations for metal/non-metal parts/products. These requirements are listed as follows:

(a) All degreasers shall be equipped with a cover which reduces solvent evaporation and minimizes disturbing the vapor zone.

(b) A permanent, conspicuous label summarizing the applicable operating requirements contained in Rule 1104. In lieu of a label, operating instructions may be posted near the degreaser where the operators can access the proper operating requirements of this rule.

(c) <u>Cold Solvent Degreasers - Freeboard Requirements:</u>

(i) Cold solvent degreasers using only low volatility solvents which are not agitated, shall operate with a freeboard height of not less than 6 inches.

(ii) Cold solvent degreasers using only low volatility solvents may operate with a freeboard ratio equal to or greater than 0.50 when the cold solvent degreaser has a cover which remains closed during the cleaning operation.

(iii) Any cold solvent degreasers using solvent which is agitated, or heated above 50^{o}C (120^{o}F) shall operate with a freeboard ratio equal to or greater than 0.75.

(iv) A water cover may be used as an acceptable control method to meet the freeboard requirements, when the solvent is insoluble in water and has a specific gravity greater than 1.

(d) <u>Cold Solvent Degreasers - Cover Requirements:</u>

(i) Cold solvent degreasers using high volatility solvent shall have a cover that is a sliding, rolling or guillotine (bi-parting) type which is designed to easily open and close without disturbing the vapor zone.

(e) <u>Cold Solvent Degreasers - Solvent Level Identification:</u>

(ii) A permanent, conspicuous mark locating the maximum allowable solvent level conforming to the applicable freeboard requirements.

(f) <u>All Degreasers shall comply with the following operating requirements</u>:

(i) Any solvent cleaning equipment and any emission control device shall be operated and maintained in strict accord with the recommendations of the manufacturer.

(ii) Degreasers shall not be operating with any detectable solvent leaks.

(iii) All solvent, including waste solvent and waste solvent residues, shall be stored in closed containers at all times. All containers for any solvent(s) shall have a label indicating the name of the solvent/material they contain.

(iv) Waste solvent and any residues shall be disposed of by one of the following methods: a commercial waste solvent reclamation service licensed by the State of California; **or** a federally or state licensed facility to treat, store or dispose of such waste; **or** the originating facility may recycle the waste solvent and materials in conformance with requirements of Section 25143.2 of the California Health and Safety Code.

(v) Degreasers shall be covered to prevent fugitive leaks of vapors, except when processing work or to perform maintenance.

(vi) Solvent carry-out shall be minimized by the following methods:

a) Rack workload arranged to promote complete drainage

b) Limit the vertical speed of the power hoist to 3.3 meters per minute (11 ft/min) or less when such a hoist is used.

c) Retain the workload inside of the vapor zone until condensation ceases.

d) Tip out any pools of solvent remaining on the cleaned parts before removing them from the degreaser if the degreasers are operated manually.

e) Do not remove parts from the degreaser until the parts are visually dry and not dripping/leaking solvent. (This does not apply to an emulsion cleaner workload that is rinsed with water within the degreaser immediately after cleaning.)

(vii) The cleaning of porous or absorbent materials such as cloth, leather, wood or rope is prohibited.

(viii) Except for sealed chamber degreasers, all solvent agitation shall be by either pump recirculation, a mixer, or ultrasonics.

(ix) The solvent spray system shall be used in a manner such that liquid solvent does not splash outside of the container. The solvent spray shall be a continuous stream, not atomized or shower type, unless, the spray is conducted in a totally enclosed space, separated from the environment.

(x) For those degreasers equipped with a water separator, no solvent shall be visually detectable in the water in the separator.

(xi) Wipe cleaning materials containing solvent shall be kept in closed containers at all times, except during use.

(xii) A degreaser shall be located so as to minimize drafts being directed across the cleaning equipment, the exposed solvent surface, or the top surface of the vapor blanket.

(xiii) A method for draining cleaned material, such as a drying rack suspended above the solvent and within the freeboard area, shall be used so that the drained solvent is returned to the degreaser or container.

(g) Rule 442 Applicability:

Any solvent using operation or facility which is not subject to the source-specific Rule 1104 shall comply with the provisions of Rule 442. Any solvent using operation or facility which is exempt from all or a portion of the VOC limits, equipment limits or the operational limits of Rule 1104 shall be subject to the applicable provisions of Rule 442.

(h) Solvent Usage Records:

Owner/Operator subject to Rule 1104 or claiming any exemption under Rule 1104, Section (E), shall comply with the following requirements:

(1) Maintain and have available during an inspection, a current list of solvents in use at the facility which provides all of the data necessary to evaluate compliance,

including the following information separately for each degreaser, as applicable:

(i) product name(s) used in the degreaser, and
(ii) the mix ratio of solvent compounds mixtures of solvents are used, and
(iii) VOC content of solvent or mixture of compounds as used, and
(iv) the total volume of the solvent(s) used for the facility, on a monthly basis, and
(v) the name and total volume applied of wipe cleaning solvent(s) used, on a monthly basis.

(2) Additionally, for any degreaser utilizing an add-on emission control device/system as a means of complying with provisions of Rule 1104 shall, on a monthly basis, maintain records of key system operating and maintenance data. Such data is recorded for the purpose of demonstrating continuous compliance during periods of emission producing activities. The data shall be recorded in a manner as prescribed by the District.

(3) Documentation shall be maintained on site of the disposal or on site recycling of any waste solvent or residues.

(4) Records shall be retained (at facility) and available for inspection by District, state or federal personnel for the previous 5 year period as required by this Title V / Federal Operating Permit.

[Rule 1104 - Organic Solvent Degreasing Operations; Version in SIP = Current, 40 CFR 52.220(c)(207)(i)(D)(2) - 04/30/96 61 FR 18962, effective 11/30/94]

25. Owner/Operator's use of *Architectural Coatings* at this facility shall comply with the requirements of Rule 1113, including the VOC limits specified in Rule 1113, part C, Table of Standards, as listed below:

Table of Standards

COATING:	VOC (g/l)
Below Ground Wood Preservatives	600
Bond Breakers	350
Concrete Curing Compounds	350
Dry-Fog Coatings	400
Fire Retardant Coatings	
Clear	650
Pigmented	350
Flat Coatings	250
General Primers, Sealers and Undercoaters	350
Graphic Arts (Sign) Coatings	500
Industrial Maintenance Coatings	
Anti-Graffiti Coatings	600
General Coatings	420
High Temperature Coatings	550
Lacquer	680
Magnesite Cement Coatings	600
Mastic Texture Coatings	300
Metallic-Pigmented Coatings	500
Multi-Color Coatings	580
Opaque Stains	350
Opaque Wood Preservatives	350
Pretreatment (Wash) Primer	780
Quick Dry Enamels	400

Quick Dry Primers, Sealers and Undercoaters	450
Roof Coatings	300
Sanding Sealers	550
Semi-transparent Stains	350
Semi-transparent and Clear Wood Preservatives	350
Shellac	
Clear	730
Pigmented	550
Swimming Pool Coatings	650
Swimming Pool Repair and Maintenance Coatings	650
Traffic Paints	250
For Other Surfaces	250
Black Traffic Coatings	650
Varnish	350
Waterproof Sealers	400

[Rule 1113 - *Architectural Coatings*; Version in SIP = 02/20/79, 40 CFR 52.220(c)(51)(xii)(B)-06/09/82 47 FR 25013; Current Rule Version = 09/02/92]

26. Owner/Operator shall apply coatings to metal parts and products subject to the provisions of Rule 1115 by using equipment properly operated according to manufacturer's suggested guidelines using one or more of the following methods:
(a) Electrostatic attraction.
(b) High Volume Low Pressure (HVLP) spray equipment.
(c) Dip coat.
(d) Hand Application Methods.
[Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]

27. Owner/Operator shall not apply to metal parts and products any coatings, including any VOC-containing materials added to the original coating supplied by the manufacturer, which contain VOC in excess of the limits specified below unless emissions to the atmosphere are controlled to an equivalent level by air pollution abatement equipment with a capture and control system Combined Efficiency of at least 85 percent:

LIMITS
(Grams of VOC Per Liter of Coating, Less Water and Less Exempt Compounds)

Coating	Air Dried		Baked	
	g/L	(lb/gal)	g/L	(lb/gal)
General	420	(3.5)	360	(3.0)
Military Specification	420	(3.5)	360	(3.0)
Etching Filler	420	(3.5)	420	(3.5)
Solar-Absorbent	420	(3.5)	360	(3.0)
Heat-Resistant	420	(3.5)	360	(3.0)
High-Gloss	420	(3.5)	360	(3.0)
Extreme High-Gloss	420	(3.5)	360	(3.0)
Metallic	420	(3.5)	420	(3.5)
Extreme Performance	420	(3.5)	360	(3.0)
Prefabricated Architectural				
Component	420	(3.5)	275	(2.3)
Touch Up	420	(3.5)	360	(3.0)

Repair	420	(3.5)	360	(3.0)
Silicone-Release	420	(3.5)	420	(3.5)
High Performance				
Architectural	420	(3.5)	420	(3.5)
Camouflage	420	(3.5)	420	(3.5)
Vacuum-Metalizing	420	(3.5)	420	(3.5)
Mold-Seal	420	(3.5)	420	(3.5)
High-Temperature	420	(3.5)	420	(3.5)
Electric-Insulating Varnish	420	(3.5)	420	(3.5)
Pan-Backing	420	(3.5)	420	(3.5)
Pretreatment Wash Primer	420	(3.5)	420	(3.5)
Clear Coating	520	(4.3)	520	(4.3)

[Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]

28. The provisions of Part II, Condition A.26 shall not apply to the application of touch-up coatings, repair coatings, textured coatings, metallic coatings which have a metallic content of more than 30 grams per liter, mold-seal coatings, and to facilities that use less than three gallons of such coatings per day, as applied, including any VOC-containing materials added to the original coatings as supplied by the manufacturer.
[Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]

29. The provisions of Part II, Conditions A.26 and A.27 shall not apply to:
(a) A facility which uses a total of less than one gallon of coating in any one day, including any VOC-containing materials added to the original coating as supplied by the manufacturer.
(b) Total noncompliant coating use per facility that does not exceed 55 gallons per year.
(c) Stencil coatings.
(d) Safety-indicating coatings.
(e) Magnetic data storage disk coatings.
(f) Solid-film lubricants.
(g) Adhesives.
(h) The coating of motor vehicle bodies at motor vehicle rework facilities.
[Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]

30. Owner/Operator of any facility classified as exempt or claiming to be exempt under Rule 1115, shall meet the record keeping requirements of Rule 1115 so as to be able to certify the exemption status.
[Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]

31. Owner/Operator of any coating, coating operation, or facility which is exempt from all or a portion of the VOC limits of Rule 1115 shall comply with the provisions of Rule 442 unless compliance with the limits specified in Rule 1115 are achieved.
[Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]

32. Owner/Operator shall comply with the following requirements when using solvent for surface preparation, cleanup, and paint removal, including paint spray equipment:

(a) (i) VOC-containing materials for surface preparation shall not have a VOC content in excess of 200 grams of VOC per liter of material (1.67 pounds per gallon); or
(ii) VOC-containing materials has an initial boiling point of 190 deg C (374 deg F) or greater; or
(iii) VOC-containing materials has a total VOC vapor pressure of 20 mm Hg or less, at 20 deg C (68 deg F).

(b) Owner/Operator shall use closed, nonabsorbent containers for the storage or disposal of cloth or paper used for solvent surface preparation and cleanup.

(c) Owner/Operator shall store fresh or spent solvent in closed containers.

(d) Owner/Operator shall not use organic compounds for the cleanup of spray equipment including paint lines unless an enclosed system is used for cleanup. The system shall enclose spray guns, cups, nozzles, bowls, and other parts during washing, rinsing and draining procedures. Equipment used shall minimize the evaporation of organic compounds to the atmosphere.

[Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]

33. Owner/Operator shall not specify the use in the District of any coating to be applied to any metal parts and products subject to the provisions of this Rule 1115 that does not meet the limits and requirements of Rule 1115. This requirement applies to all written or oral contracts.
[Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]

34. Owner/Operator subject to Part II, Section A, conditions A.26 through A.39 shall comply with the following requirements:

(a) Owner/Operator shall maintain and have available during an inspection, a current list of coatings in use which provides all of the coating data necessary to evaluate compliance, including the following information, as applicable:
1. coating, catalyst, and reducer used.
2. mix ratio of components used.
3. VOC content of coating as applied.
4. quantity of Group II exempt compounds used.

(b) Owner/Operator shall maintain records on a daily basis including:
1. coating and mix ratio of components used in the coating; and
2. quantity of each coating applied.

(c) Owner/Operator shall maintain records on a daily basis showing the type and amount of solvent used for cleanup, surface preparation, and paint removal.

(d) Records shall be retained (at facility) and available for inspection by District, state or federal personnel for the previous 5 year period as required by this Title V / Federal Operating Permit.

[Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]

35. Owner/Operator shall obtain, and maintain records from the coating/ paint manufacturer regarding the VOC content of the coating/paint and any solvents contained therein.
[Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]
[40 CFR 70.6 (a)(3)(i)(B) - Periodic Monitoring Requirements]

36. The Owner/Operator of any facility electing to engage in the mixing of coatings/ paints or

solvents shall be required to obtain and maintain an analysis of the mixture from an independent testing laboratory.
[Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]
[40 CFR 70.6 (a)(3)(i)(B) - Periodic Monitoring Requirements]

37. A violation of the limits contained in Part II, Conditions A.26 through A.39 as determined by any one of Part II, Conditions 38 and 39 *Reference Method Tests* shall constitute a violation of applicable Part II conditions.
[Rule 1114 - *Wood Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(244)(i)(C)(1) - 08/18/98 63 FR 44132]
[Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]

38. The following specified *Reference Method Tests* shall be used to determine compliance with the provisions of Part II, Conditions A.26 through A.39, as required by Rule 1114:
    (a) Samples of coatings and solvent as specified in Part II, Conditions A.26 through A.39 shall be analyzed as prescribed by EPA Reference Method 24 for VOC content (without correction for exempt compounds) and ASTM D4457-85, or ARB Method 432 for determination of emissions of exempt compounds. Perfluorocarbon compounds shall be assumed to be absent from a product or process unless a manufacturer or facility Owner/Operator identifies the specific individual compounds (from the broad classes of perfluorocarbon compounds) and the amounts present in the product or process and provides a validated test method which can be used to quantify the specific compounds.
    (b) Emissions of volatile organic compounds as specified in Part II, Conditions A.26 through A.39 shall be measured as prescribed by EPA Reference Method 25 for determination of VOC emissions (without correction for exempt compounds) and EPA Method 18, or ARB Method 422 for measuring emission of exempt compounds.
    (c) Transfer efficiency as required by Part II, Conditions A.26 through A.39 shall be determined by *South Coast Air Quality Management District Spray Equipment Transfer Efficiency Test Procedure for Equipment User, May 24, 1989*.
    (d) Overall abatement efficiency is the product of capture efficiency as determined by procedures described in *55 FR 26865, 29 June, 1990*, and abatement device efficiency.
    [Rule 1114 - *Wood Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(244)(i)(C)(1) - 08/18/98 63 FR 44132]
    [40 CFR 70.6 (a)(3)(i)(B) - Periodic Monitoring Requirements]

39. The following specified *Reference Method Tests* shall be used to determine compliance with the provisions of Part II, Conditions A.26 through A.39, as required by Rule 1115:
    (a) The VOC content of coatings and solvents, as specified in subsections (C)(2) and (C)(4)(c)(i), shall be analyzed as prescribed by USEPA Reference Method 24 for VOC content (without correction for exempt compounds) and ASTM D4457-85, or CARB Method 432, for determination of emissions of exempt compounds. Perfluorocarbon compounds shall be assumed to be absent from a product or process unless a manufacturer or facility operator identifies the specific individual compounds (from the broad classes of perfluorocarbon compounds) and the amounts present in the product or process and provides a validated test method which can be used to quantify the specific compounds.
    (b) Determination of the initial boiling point of liquid containing VOC, subject to subsection (C)(4)(c)(ii), shall be conducted in accordance with ASTM D1078-86.

(c) Calculation of total VOC vapor pressure for materials subject to subsection (C)(4)(c)(iii) shall be conducted in accordance with ASTM D2879-86. The fraction of water and exempt compounds in the liquid phase shall be determined by using ASTM D3792-91 and D4457-85 and shall be used to calculate the partial pressure of water and exempt compounds. The results of vapor pressure measurements obtained using ASTM D2879-86 shall be corrected for partial pressure of water and exempt compounds.

(d) Measurement of solvent losses from alternative application cleaning equipment subject to (C)(4)(b)(iii) shall be conducted in accordance with the South Coast Air Quality Management District's "General Test Method for Determining Solvent Losses from Spray Gun Cleaning Systems" (11/1/94).

(e) Measurement of acid content of a substance shall be determined by ASTM D1613-85.

(f) Measurement of metal content of coatings shall be determined in accordance with South Coast Air Quality Management District's "Laboratory Methods of Analysis for Enforcement Samples" manual, "Determination of Percent Metal in Metallic Coatings by Spectrographic Method, Method 311".

(g) Capture Efficiency shall be determined according to USEPA's technical document, "Guidelines for Determining Capture Efficiency" (1/9/95).

(h) The control efficiency of the Control Device shall be determined according to USEPA Test Methods 25, 25A or 25B for measuring the total gaseous organic concentrations at the inlet and outlet of the emissions Control Device, as contained in 40 CFR Part 60, Appendix A. USEPA Test Method 18 or CARB Method 422 shall be used to determine emissions of exempt compounds.

(i) Measurement of solids content by weight of a substance shall be conducted in accordance with ASTM D1475-60.

(j) Alternative test methods may be used upon obtaining the approval of the APCO, CARB and USEPA.

(k) Demonstration of Transfer Efficiency of alternative application methods subject to subsection (C)(1)(a)(v) shall be conducted in accordance with South Coast Air Quality Management District's "Spray Equipment Transfer Efficiency Test Procedure for Equipment User" (5/24/89).

[Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]
[40 CFR 70.6 (a)(3)(i)(B) - Periodic Monitoring Requirements]

40. MDAQMD Rule 1118 Requirements:
(C) Requirements
(1) VOC Limit Requirements
(a) A person shall not apply any coating or specify the use of any coating which, as applied, emits or may emit volatile organic compounds into the atmosphere in excess of the limits shown in the table below. These limits are expressed in Grams of VOC per Liter of Coating Less Water and Exempt Compounds (VOC content):
See condition # 41 that follows for VOC limits:

(b) Stripper: A person shall not apply any stripper or specify the use of any stripper unless it complies with one of the following:
(i) The stripper contains less than 400 grams/liter (3.3 lbs/gal) of VOC content; or
(ii) The stripper has a true vapor pressure of less than 10 mm Hg at actual usage temperature.

(c) Solvent Use and Clean Up: A person shall not use VOC-containing materials for cleaning or clean-up, excluding coating stripping equipment cleaning, unless:
(i) the VOC content composite partial pressure is 45 mm Hg or less at a temperature of 20 degrees C, or
(ii) the material contains 200 grams or less of VOC content per liter of material, as applied.
(d) Add-on Emissions Control Equipment - Sources may elect to use add-on emissions control equipment to achieve compliance with the provisions of Section (C)(1).
(i) The combined capture and control system efficiency must, at a minimum, be 85% effective in reducing VOC emissions.
(ii) Such control equipment must, prior to operation, be approved in advance by the Air Pollution Control Officer (APCO).
(iii) Any person choosing to install such control equipment shall obtain an Authority to Construct from the District prior to installation.

Aerospace Vehicle Parts and Products Coating Operations 1118-9
(2) Application Equipment Requirements
A person shall not apply coatings subject to the provisions of this rule except by using properly operated equipment and by:
(a) Electrostatic application, or
(b) Flow coat application, or
(c) Dip coat application, or
(d) High volume, low pressure spraying (HVLP), or
(e) Electrodeposition, or
(f) Hand application methods, or
(g) Detailing or touch-up guns, or
(h) Alternative Application Techniques - Alternative application techniques for coatings may be used when the alternative technique is demonstrated to have a transfer efficiency at least equal to one of the above methods, when used in such a manner that the parameters under which they were tested are permanent features of the application technique. Such alternative application techniques shall be approved in writing prior to use by the APCO.
(3) Closed Container Requirements
All VOC-containing materials, used or unused, including but not limited to surface coatings, thinners, cleanup solvents, or surface preparation materials shall be stored in closed containers and opened only during extraction or introduction of material for mixing, use or storage.
(4) Labeling Requirements
(a) Each container of any coating, solvent or stripper subject to this rule shall display the date on which the contents were manufactured or a code indicating the date of manufacture. Each manufacturer of such coatings shall file with the District's APCO and the Executive Officer of the California Air Resources Board an explanation of each code.
(b) Each container of any coating, solvent or stripper subject to this rule shall have the VOC content displayed, either

Aerospace Vehicle Parts and Products Coating Operations 1118-10

(i) on the manufacturer's label. VOC content may be calculated using product formulation data, or may be determined using the test method in Section (F); or
(ii) on a product information sheet; or
(iii) on the product Material Safety Data Sheet (MSDS).
(c) Each container of any coating, solvent or stripper subject to this rule shall display the maximum VOC content of the coating, as applied. When thinning is recommended on the label for normal environmental and application conditions, the subsequent thinning shall not cause a coating, as applied, to exceed its applicable standard. This recommendation shall not apply to the thinning of coatings with water.

(D) Exemptions
(1) Any person or facility claiming to be exempt from Section (C) of this rule must comply with applicable Recordkeeping requirements of Section (E) of this rule so as to provide documentation for the claimed exempt status.
(2) Any person or facility claiming exempt status must make, in writing, a certified Statement of Compliance to the District at the same time as the annual permit review/renewal or by March 1 of each calendar year for facilities not required to have permits to operate by the District.
(3) The provisions of Section (C) shall not apply to any coatings with separate formulations used in volumes of less than 50 gallons in any calendar year, provided that the total volume of non-complying coatings used at a stationary source does not exceed 200 gallons annually. Coatings used for operations that are exempt per Sections (D)(4) and (D)(5) shall not be included in calculating the volume of coatings used under this exemption.
(4) The provisions of Section (C)(2). shall not apply to touch-up and repair.
(5) The provisions of this rule shall not apply to coatings supplied in hand-held aerosol containers.
(6) The provisions of Section (C)(1) shall not apply to the recoating of assembled aircraft at rework facilities if the original coatings formulations are used.
(7) The provisions of Section (C)(1) shall not apply to laboratories which apply coatings to test specimens for the purpose of research, development, quality control, and testing of production-related operations.

Aerospace Vehicle Parts and Products Coating Operations 1118-11
(8) The provisions of (C)(1) shall not apply to the use of airbrush application methods for stenciling, lettering or other identification markings when such markings cover less than 20 percent of the vehicle, part or product's exterior surface area.

(E) Recordkeeping and Compliance Testing
Persons subject to this rule shall comply with the following requirements.
(1) Materials List Record - Maintain a current listing of all VOC-containing materials in use at their facility. This listing shall include:
(a) material name and manufacturer identification;
(b) application method;
(c) material type and specific use instructions;
(d) specific mixing ratio;
(e) maximum VOC content as applied (including thinning solvents).
(2) Technical Information Records - Current coating manufacturer specification

sheets, Material Safety Data Sheets (MSDS) or current air quality data sheets, which list the VOC content of each material in use at their facility, shall be available for review on site.
(3) Purchase Records - Maintain purchase records identifying the type or name and the volume of material purchased for each VOC-containing material.
(4) Materials Usage Records
(a) If the facility uses exclusively coatings formulations compliant with Section (C), records may be maintained on a monthly basis.
(b) Maintain on a daily basis a record of the volume, VOC content, and resulting VOC emissions of each VOC-containing material used. These records shall be summarized cumulatively on a monthly basis and for each calendar year.
(c) Monthly volume-weighted averaging for non-compliant primer or topcoat or maskant coatings:

Aerospace Vehicle Parts and Products Coating Operations 1118-12
(i) Averaging shall be within the coating class only. Averaging primers with topcoats, primers with maskants, or topcoats with maksants is prohibited under this subsection.
(ii) Averaging is permitted for uncontrolled coatings only, subject to requirements of (E)(4)(c)(i) and (E)(4)(c)(ii). (Uncontrolled means when no control device is used to reduce emissions of VOCs from the operation).
(iii) Averaging may be on a process line or facility-wide basis and is subject to record keeping requirements of (E)(4)(b).
(iv) Each averaging scheme shall be approved by the APCO prior to commencing operations and be included as a permit condition on the operating permit for the facility.
(v) Calculations shall follow the formula in definition (B)(49) and procedures per (E)(4)(c).
(5) Add-on Emissions Control Equipment Records - Operators of facilities that use non-compliant coating materials with compliance achieved through the operation of add-on emission control equipment shall:
(a) maintain daily records of key operating and maintenance procedures.
(b) utilize Compliance Assurance Monitoring, as approved by the APCO, to meet administrative and equipment operational requirements.
(c) If a control device is used, each owner/operator shall conduct an initial performance test to demonstrate compliance with the overall reduction efficiency specified in Subsection (C)(1))(d)(i). For carbon adsorber systems, the initial performance test shall be used to establish the appropriate rolling average material balance period for determining compliance.
(6) Records Availability and Retention - All records required by this rule shall be retained for the previous five year period and be available for inspection upon request by the APCO or their designated representative.

(F) Test Methods
(1) The VOC content of a coating, solvent or stripper shall be determined using EPA Reference Method 24, its constituent methods or an equivalent method approved by the District APCO, ARB and EPA. The determination of exempt compounds

shall be performed in accordance with ASTM D 4457-85.

Aerospace Vehicle Parts and Products Coating Operations 1118-13
(2) Compliance with Section (C)(1)(d) shall be determined by using ARB Method 100 or EPA Method 25 or a method determined to be equivalent and approved by the APCO, ARB, and EPA.
(3) Compliance with Section (C)(1)(d) shall be based on EPA Guidelines for Developing Capture Efficiency Protocols from 55 FR 26865, June 29, 1990; or EPA technical guideline document "Guidelines for Determining Capture Efficiency" as finalized 1/9/95; or
EPA technical guidance document "Revised Capture Efficiency Guidance for Control of Volatile Organic Compound Emissions" as finalized 2/7/95; or
EPA Source Test Method 204 and variations A, B. C, D, E, and F as revised 8/1/95.
(4) MDAQMD recommends that Transfer Efficiency for Alternative Application Techniques (compliance with Section (C)(2)) be determined using South Coast Air Quality Management District Method "Spray Equipment Transfer Efficiency Test Procedure of Equipment User", May 24, 1989.
(5) Compliance with Section (C)(1) shall be determined using ASTM D 2879-86, manufacturer's specified vapor pressure, or an accepted scientific reference.
(6) Compliance with Section (B)(31), percent acid, shall be determined using ASTM method D-1613-85.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

41. Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Owner/Operator of facility subject to the requirements of Rule 1118 shall comply with the following requirements:
Any person who manufactures or reworks aerospace vehicles by applying or specifying the use of surface coatings for aerospace vehicle parts and products shall comply with the following requirements:
A person shall not apply any coating or specify the use of any coating, which, as applied, emits or may emit volatile organic compounds into the atmosphere in excess of the limits shown in the table below. These limits are expressed in Grams of VOC per Liter of Coating Less Water and Exempt Compounds (VOC content):

Coating Type	**VOC Limit**	
	g/l	**lb/gal**
Adhesive		
- Bonding Primer	250	2.1
- Non-structural adhesive	250	2.1
- Structural adhesive, autoclavable	50	0.4
- Structural adhesive, non-autoclavable	700	5.9
CARC	500	4.2

Coating Type	VOC Limit	
	g/l	lb/gal
Electric/Radiation Effect	800	6.7
Extreme Performance		
- Coating	420	3.5
- Interior Topcoat	420	3.5
Fire-Resistant Coating		
- civilian	650	5.4
- military	970	7.7
Fuel Tank Coating	720	6.0
General Coating Product	350	2.9
High Temperature Coating	720	6.0
Interior Topcoat	340	2.8
Maskant for		
- Chemical Processing	600	5.0
- Chemical Milling, Type I Etchant	622	5.2
- Chemical Milling, Type II Etchant	160	1.3
Pretreatment Wash Primer	780	6.6
Primer	350	2.9
Rain Erosion Resistant Coating	600	5.0
Sealant	600	5.0
Sealant Bonding Primer	720	6.0
Self Priming Topcoat	420	3.5
Space Vehicle Coating		
- Electrostatic-Discharge	800	6.7
- Other	1000	8.3
Temporary Protective Coating	250	2.1
Topcoat	420	3.5

Coating Type	**VOC Limit**	
	g/l	**lb/gal**
Unicoat	420	3.5
Wing Coating	750	6.3

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

42. Owner/Operator shall comply with all requirements of the District's Title V Program, MDAQMD Rules 1200 through 1210 (Regulation XII - *Federal Operating Permits*).
[Applicable via Title V Program interim approval 02/05/96 61 FR 4217]

43. Owner/Operator shall comply with all applicable requirements of the Aerospace NESHAP summarized in Appendix "A" (page 69) attached at the end of this Title V Permit.

B. FACILITYWIDE MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS:

1. Any data and records generated and/or kept pursuant to the requirements in this federal operating permit (Title 5 Permit) shall be kept current and on site for a minimum of five (5) years from the date generated. Any records, data or logs shall be supplied to District, state or federal personnel upon request.
[40 CFR 70.6(a)(3)(ii)(B); Rule 1203(D)(1)(d)(ii)].

2. Any Compliance/Performance testing required by this Federal Operating Permit shall follow the administrative procedures contained in the District's *Compliance Test Procedural Manual.* Any required annual Compliance and/or Performance Testing shall be accomplished by obtaining advance written approval from the District pursuant to the District's *Compliance Test Procedural Manual*. All emission determinations shall be made as stipulated in the *Written Test Protocol* accepted by the District. When proposed testing involves the same procedures followed in prior District approved testing, then the previously approved *Written Test Protocol* may be used with District concurrence.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

3. Owner/Operator of permit units subject to Comprehensive Emissions Inventory Report / Annual Emissions Determinations for District, State, and Federal required Emission Inventories shall monitor and record the following for each unit:
   (a) The cumulative annual usage of each fuel type. The cumulative annual usage of each fuel type shall be monitored from utility service meters, purchase or tank fill records.
   (b) Fuel suppliers' fuel analysis certification/guarantee including fuel sulfur content shall be kept on site and available for inspection by District, state or federal personnel upon request. The sulfur content of diesel fuel shall be determined by use of ASTM method D2622-82, or (ASTM method D 2880-71, or equivalent). Vendor data meeting this requirement is sufficient.

   [*40 CFR 70.6(a)(3)(B) – Periodic Monitoring Requirements*]
   [Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
   [Federal Clean Air Act: §110(a)(2)(F, K & J); §112; §172(c)(3); §182(a)(3)(A & B); §187(a)(5); § 301(a)] and in California Clean Air Act, Health and Safety Code §§39607 and §§44300 et seq.]

4 (a). Owner/Operator shall submit Compliance Certifications as prescribed by Rule 1203(F)(1) and Rule 1208. Compliance Certifications by a Responsible Official shall certify the truth, accuracy and completeness of the document submitted and contain a statement to the effect that the certification is based upon information and belief, formed after a reasonable inquiry; the statements and information in the document are true, accurate, and complete.
[40 CFR 70.6(c)(5)(i); Rule 1203(D)(1)(g)(vii); Rule 1203(F)(1); Rule 1208]

(b). Owner/Operator shall include in any Compliance Certification the methods used for

monitoring such compliance.
[40 CFR 70.6(c)(5)(ii); Rule 1203(D)(1)(g)(viii)]

(c). Owner/Operator when submitting any Compliance Certification(s) to the MDAQMD shall contemporaneously submit such Compliance Certification(s) to USEPA.
[40 CFR 70.6(5)(iii); Rule 1203(D)(g)(ix)]

(d). Owner/Operator shall comply with any additional certification requirements as specified in 42 U.S.C §7414(a)(3), Recordkeeping, Inspections, Monitoring and Entry (Federal Clean Air Act §114(a)(3)) and 42 U.S.C. §7661c(b), Permit Requirements and Conditions (Federal Clean Air Act §503(b)), or in regulations promulgated thereunder.
[Rule 1203 (D)(1)(g)(x)]

(e). On an ***annual*** basis, of any given year, Owner/Operator shall submit a *Compliance Certification Report*, within 30 days of the anniversary of the date of the issuance or renewal of the Federal Operating Permit, to the APCO/District pursuant to District Rule 1203. Each report shall be certified to be true, accurate, and complete by "The Responsible Official" and a copy of this annual report shall also be contemporaneously submitted to the EPA Region IX Administrator.
[40 CFR 72.90.a and Rule 1203 (D)(1)(g)(v - x)]

5. Owner/Operator shall submit, on a ***semi-annual*** basis, a *Monitoring Report* to the APCO/District, with a copy to the EPA Region IX Administrator. Each *Monitoring Report* shall be submitted no later than 60 days after the midpoint (six months after the Title 5 Permit month & day issue date) of the Title 5 Permit anniversary date of any given year. This *Monitoring Report* shall be certified to be true, accurate, and complete by "The Responsible Official" and shall include the following information and/or data:
   (a) Summary of deviations from any federally-enforceable requirement in this permit.
   (b) Summary of all emissions monitoring and analysis methods required by any Applicable Requirement / federally - enforceable requirement.
   (c) Summary of all periodic monitoring, testing or record keeping (including test methods sufficient to yield reliable data) to determine compliance with any Applicable Requirement / federally - enforceable requirement that does not directly require such monitoring.
   (d) Summary of necessary requirements concerning use and maintenance of equipment including the installation and maintenance of monitoring equipment.

   [1203(D)(1)(c)(i - iii); 1203(D)(1)(d)(i); Rule 1203(D)(1)(e)(i - ii); Rule 1203(D)(1)(g)(v - x)]

6. Owner/Operator shall promptly report all deviations from federal operating permit requirements including, but not limited to; any emissions in excess of permit conditions, deviations attributable to breakdown conditions, and any other deviations from permit conditions. Such reports shall include the probable cause of the deviation and any corrective action or preventative measures taken as a result of the deviation. [Rule 1203(D)(1)(e)(ii) and Rule 430(C)]
   Prompt reporting shall be determined as follows:
   (a) For deviations involving emissions of air contaminants in excess of permit conditions including but not limited to those caused by a breakdown, prompt reporting shall be within one hour of the occurrence of the excess emission or

within one hour of the time a person knew or reasonably should have known of the excess emission. Documentation and other relevant evidence regarding the excess emission shall be submitted to the District within sixty (60) days of the date the excess emission was reported to the District. [SIP Pending: Rule 430 - Breakdown Provisions as amended 12/21/94 and submitted 2/24/95]

(b) For other deviations from permit conditions not involving excess emissions of air contaminants shall be submitted to the District with any required monitoring reports at least every six (6) months. [Rule 1203(D)(1)(e)(i)]

7. If any facility unit(s) should be determined not to be in compliance with any federally-enforceable requirement during the 5-year permit term, then owner/operator shall obtain a *Schedule of Compliance* approved by the District Hearing Board pursuant to the requirements of MDAQMD Regulation 5 (Rules 501 - 518). In addition, Owner/Operator shall submit a *Progress Report* on the implementation of the *Schedule of Compliance*. The *Schedule of Compliance* shall contain the information outlined in (b), below. The *Progress Report* shall contain the information outlined in (c), below. The *Schedule of Compliance* shall become a part of this Federal Operating Permit by administrative incorporation. The *Progress Report* and *Schedule of Compliance* shall comply with Rule 1201(I)(3)(iii) and shall include:

(a) A narrative description of how the facility will achieve compliance with such requirements; and

(b) A *Schedule of Compliance* which contains a list of remedial measures to be taken for the facility to come into compliance with such requirements, an enforceable sequence of actions, with milestones, leading to compliance with such requirements and provisions for the submission of *Progress Reports* at least every six (6) months. The *Schedule of Compliance* shall include any judicial order, administrative order, and/or increments of progress or any other schedule as issued by any appropriate judicial or administrative body or by the District Hearing Board pursuant to the provisions of Health & Safety Code §42350 et seq.; and

(c) *Progress Reports* submitted under the provisions of a *Schedule of Compliance* shall include: Dates for achieving the activities, milestone, or compliance required in the schedule of compliance; and dates when such activities, milestones or compliance were achieved; and an explanation of why any dates in the schedule of compliance were not or will not be met; and any preventive or corrective measures adopted due to the failure to meet dates in the schedule of compliance. [Rule 1201 (I)(3)(iii); Rule 1203 (D)(1)(e)(ii); Rule 1203 (D)(1)(g)(v)]

C. FACILITYWIDE COMPLIANCE CONDITIONS:

1. Owner/Operator shall allow an authorized representative of the MDAQMD to enter upon the permit holder's premises at reasonable times, with or without notice.
[40 CFR 70.6(c)(2)(i); Rule 1203(D)(1)(g)(i)]

2. Owner/Operator shall allow an authorized representative of the MDAQMD to have access to and copy any records that must be kept under condition(s) of this Federal Operating Permit.
[40 CFR 70.6(c)(2)(ii); Rule 1203(D)(1)(g)(ii)]

3. Owner/Operator shall allow an authorized representative of the MDAQMD to inspect any equipment, practice or operation contained in or required under this Federal Operating Permit.
[40 CFR 70.6(c)(2)(iii); Rule 1203(D)(1)(g)(iii)]

4. Owner/Operator shall allow an authorized representative of the MDAQMD to sample and/or otherwise monitor substances or parameters for the purpose of assuring compliance with this Federal Operating Permit or with any Applicable Requirement.
[40 CFR 70.6(c)(2)(iv); Rule 1203(D)(1)(g)(iv)]

5. Owner/Operator shall remain in compliance with all Applicable Requirements / federally enforceable requirements by complying with all compliance, monitoring, record-keeping, reporting, testing, and other operational conditions contained in this Federal Operating Permit. Any noncompliance constitutes a violation of the Federal Clean Air Act and is grounds for enforcement action; the termination, revocation and re-issuance, or modification of this Federal Operating Permit; and/or grounds for denial of a renewal application.
[1203 (D)(1)(f)(ii)]

6. Owner/Operator shall comply in a timely manner with all applicable requirements / federally - enforceable requirements that become effective during the term of this permit.
[Rule 1201 (I)(2); Rule 1203(D)(1)(g)(v)]

7. Owner/Operator shall insure that all applicable subject processes comply with the provisions of 40 CFR 61, *National Emission Standards for Hazardous Air Pollutants*, subpart A, *General Provisions*, and subpart M, *Asbestos*.
[40 CFR 61, subparts A and M]

8. Owner/Operator shall notify APCO/District at least 10 working days before any applicable asbestos stripping or removal work is to be performed as required by section 61.145.b of 40 CFR 61 subpart M, *National Emission Standard for Asbestos*.
[40 CFR 61.145.b]

9. Owner/Operator shall notify the APCO/District, on an **annual** basis, postmarked by December 17 of the calendar year, of the predicted asbestos renovations for the following

year as required by section 61.145.b of 40 CFR 61, subpart M [see cite for threshold triggering and applicability].
[40 CFR 61.145.b]

PART III
EQUIPMENT SPECIFIC APPLICABLE REQUIREMENTS; EMISSIONS LIMITATIONS; MONITORING, RECORDKEEPING, REPORTING AND TESTING REQUIREMENTS; COMPLIANCE CONDITIONS; COMPLIANCE PLANS

A. EQUIPMENT DESCRIPTION:

1. OVEN-PAINT BAKING - MDAQMD PERMIT # B001743:

An oven by W. Miller, Co., which burns natural gas and is rated at 1.2 millions Btu/h. This unit is approximately 21 ft long 10.5 ft wide and 9.5 ft deep.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. A log shall maintain a log, which contains at least the following:
   a. Date of inspection;
   b. All repairs/additions made to equipment.
2. This log shall be maintained current, on-site for a minimum of 5 years and provided to District personnel on request.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

2. EVAPORATIVE CRYSTALLIZER - MDAQMD PERMIT # B002518:

A Spray Tank, which is 5 ft in diameter and 6 ft high, has a cone bottom and 4 full-cone spray pattern nozzles, mist eliminator, swirl breaker to circulating pipe, of 1000 gallon capacity;
Heat Exchanger, whose dimensions are 10 ft by 8 inches in diameter and whose internal configuration has 41/2-inch diameter steam tubes
Circulation Pump, 2 hp
Dry Air Blower, 0.5 hp; and
A total circulation rate of 100 gal/min at 200 degrees, F, of excess treated wastewater from chemical milling operations

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. Any changes to the operations, which change emissions shall be subject to a separate and independent District review. Additionally, any required emissions controls for this

equipment shall not be changed with the prior written approval of the APCO.

2. This equipment shall be operated and maintained in strict accord with the recommendations of the manufacturer and limits specified by the District.

3. The Operating Procedure, which has been established, shall be provided to District personnel on request.

4. A log shall maintain a log, which contains at least the following:
   a. Date of inspection;
   b. All repairs/additions made to equipment.

5. This log shall be maintained current, on-site for a minimum of 5 years and provided to District personnel on request.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

3. <u>PILOT SCALE SPRAY ETCHING CABINET - MDAQMD PERMIT # B003421:</u>

Spraying Chamber, of fiberglass, 24 in by 36 in by 36 in high, with observation port
Little Giant Magnetic-driven Centrifugal Pump, model 1TE-7-MD-HC, 3/4 hp, 3400 rpm
Etchant heating Tank, 24 in by 36 in by 12 in high, with a 13 gallon capacity
Heater, teflon, flat L-shaped, 1000 W, 120 VAC
Temperature Control, indicating, 50-300 degrees F, 15 A, 120 VAC
Outer spray manifold, CPVC, 1/2 in diameter
Spray Nozzles, CPVC, 1/4 in pipe, 0.5-4.0 gal/min @ 30 psi
Inlet and Outlet plumbing, pressure gauge (0-30 psi); 2 in diameter casing, fiberglass on all pressure piping
Secondary containment tray, 36 in by 36 in by 6 in high, fiberglass

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. This equipment shall not be operated unless it is vented to the properly functioning air pollution control equipment operating under valid District permit C002571, and only if Tank K-1 (District permit T002519) is not in operation.

2. For each shift, a daily log of operations, which include as the minimum, all pump-outs and additions and their dates, shall be kept. The log shall be maintained current, on-site for a minimum of 5 years and provided to District personnel on request.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

4. BOILER - MDAQMD PERMIT # B003704:

A Superior Steam Boiler, model N4GPA200D, serial number 5803-5973, which is natural gas fired and rated at 8.4 millions Btu/h.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. Operation of this equipment shall be conducted in compliance with all data and specification submitted with the application under which this permit is issued unless otherwise noted below.

2. This equipment shall be installed, operated and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of contaminants.

3. This boiler shall use only regulated pipeline natural gas without the prior written approval of the APCO.

4. The operator shall maintain a log for this equipment, which, at a minimum, contains the information specified below. This log shall be maintained current and on-site for a minimum of five (5) years and shall be provided to District personnel on request:
   a. Annual fuel use (in MMcf) or heat input (in MMBtu); and,
   b. Annual compliance test or tune up verification.

5. This unit shall meet the following emission limits, when the annual heat input is greater than or equal to 50,000 MMBtu:
   a. Carbon monoxide less than 400 ppmv;
   b. NOx less than 70 ppmv, and/or 0.084 lbs/MMBtu of heat input, when operated on gaseous fuel;
   c. NOx less than 115 ppmv, and/or 0.150 lbs/MMBtu of heat input, when operated on liquid and/or solid fuels.
   [Rule 1157 - *Boilers and Process Heaters*; Version in SIP = Current, 40 CFR 52.220(c)(207)(I)(D)(3) - 5/19/97 61 FR 56470, effective 11/1/96]

6. This equipment shall be tested to determine compliance with condition 5 (above) through emissions compliance testing, according to Rule 1157, not less than once every twelve (12) months. A tune-up may be performed in lieu of a compliance test for years when the annual heat input is less than 50,000 MMBtu. The boilers with valid District permits B003704 and B003705 represent two identical boilers. If the annual heat input of both boilers combined is above 50,000 MMBtu, then condition 5 and annual testing (above) apply to both units.
   [Rule 1157 - *Boilers and Process Heaters*; Version in SIP = Current, 40 CFR

52.220(c)(207)(I)(D)(3) - 5/19/97 61 FR 56470, effective 11/1/96]

5. BOILER - MDAQMD PERMIT # B003705:

A Superior Steam Boiler, model N4GPA200D, serial number 5803-5974, which is natural gas fired and rated at 8.4 millions Btu/h.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. Operation of this equipment shall be conducted in compliance with all data and specification submitted with the application under which this permit is issued unless otherwise noted below.

2. This equipment shall be installed, operated and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of contaminants.

3. This boiler shall use only regulated pipeline natural gas without the prior written approval of the APCO.

4. The operator shall maintain a log for this equipment, which, at a minimum, contains the information specified below. This log shall be maintained current and on-site for a minimum of five (5) years and shall be provided to District personnel on request:
   a. Annual fuel use (in MMcf) or heat input (in MMBtu); and,
   b. Annual compliance test or tune up verification.

5. This unit shall meet the following emission limits, when the annual heat input is greater than or equal to 50,000 MMBtu:
   a. Carbon monoxide less than 400 ppmv;
   b. NOx less than 70 ppmv, and/or 0.084 lbs/MMBtu of heat input, when operated on gaseous fuel;
   c. NOx less than 115 ppmv, and/or 0.150 lbs/MMBtu of heat input, when operated on liquid and/or solid fuels.
   [Rule 1157 - *Boilers and Process Heaters*; Version in SIP = Current, 40 CFR 52.220(c)(207)(I)(D)(3) - 5/19/97 61 FR 56470, effective 11/1/96]

6. This equipment shall be tested to determine compliance with condition 5 (above) through emissions compliance testing, according to Rule 1157, not less than once every twelve (12) months. A tune-up may be performed in lieu of a compliance test for years when the annual heat input is less than 50,000 MMBtu. The boilers with valid District permits B003704 and B003705 represent two identical boilers. If the annual heat input of both boilers combined is above 50,000 MMBtu, then condition 5 and annual testing (above) apply to both units.

[Rule 1157 - *Boilers and Process Heaters*; Version in SIP = Current, 40 CFR 52.220(c)(207)(I)(D)(3) - 5/19/97 61 FR 56470, effective 11/1/96]

6. SLUDGE DRYER AND SCRUBBER - MDAQMD PERMIT # B005033:

A JWI, Inc., J-Mate, model 360G, serial number JC00253. This unit has 30 burners, each rated at 30,000 Btu/h and which burn approximately 480 cubic ft of regulated pipeline natural gas per hour. This unit has 6 hp of total electrical capacity for fans, drives and associated equipment.
The fee rating is based on the following:
(30 burners x 30000 Btu/h) + (2550 Btu/hp x 6 hp) = 915,300 Btu/h

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. This equipment shall not be operated unless the exhaust from the dryer is vented to the scrubber, which is an integral part of the original design of the equipment.

2. A log shall be maintained of the daily throughput, hours of operation and quarterly consumption of natural gas. This log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request.

3. This unit shall be operated and maintained in strict accord with the recommendations of the manufacturer.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

7. SCRUBBER - PRIMARY FUME - MDAQMD PERMIT # C001570:

A Harrington, model HPH89-5, which serves the milling & processing tanks. This unit's stack outlet is 4.5 ft in diameter and 30 ft high. The ACFM is 30,000 at 80 degrees F.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. This scrubber shall be in operation when any or all of the titanium milling tanks (A-7, B-1, B-3, B-4, B-6), are in operation. These tanks are District permits T0002521, T005198, T005199, T005200, and T005201.

2. This equipment shall be operated and maintained in strict accord with those recommendations of the manufacturer.

3. The pH of this scrubber's aqueous solution shall be maintained in the range of 9.5 - 12.0.

4. The operation manual for this unit shall be kept on site and provided to District personnel on request.

5. The owner/operator shall keep a log of all maintenance and repairs on this unit. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

8. <u>SCRUBBER - PRIMARY FUME - MDAQMD PERMIT # C001571:</u>

A Harrington, model HPH 89-5, with stack outlet 4.5 ft in diameter and 30 ft high. This line serves the C-line and is rated at 30,000 ACFM at 80 degrees F. The stack gas velocity is 1800 ft/min and the tower is polypropylene packed.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. The o/o shall maintain a pH level in this unit in the range of 9.5 - 12.0.

2. The Operating Procedure, which has been approved, shall be provided to District personnel on request.

3. A maintenance/repair log shall be kept for this scrubber. The log shall be maintained current, on-site for a minimum of 5 years and provided to District personnel on request.

4. This equipment shall be operated and maintained in strict accord with the recommendations of the manufacturer.

5. This scrubber shall be in operation when any or all of the Titanium milling tanks (C-Line), are in operation. These tanks are under District permits T001575, T000389, T000391, T002697 and T003698.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

9. <u>SCRUBBER - FUME - MDAQMD PERMIT # C001591:</u>

A Harrington Scrubber, Model BCH 89-5TB for collection of fumes of HCl, HF and HNO3 (NOx) from the H-line. This scrubber is not effective in controlling NOx

emissions. It is designed only for acidic vapor control. This unit is equipped with two 7.5 hp Carver Model LAV-O-LONG pumps rated at 360 gal/min; one 25 hp Harrington Model HPC 5425 exhaust fan producing 30,000 ACFM; a Signet Model MK710A pH control system; and related PVC piping, flanges, and appurtenant materials, which allow fumes to be drawn from tank enclosures, and ducting from tanks.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. The owner/operator shall pump out the brine solution to the wastewater treatment facility according to established schedule.

2. The owner/operator (o/o) shall maintain a pH level in this unit in the range of 9.5 - 12.0.

3. The o/o shall operate and maintain this equipment, including but not limited to, the sodium hydroxide system and water systems in strict accord with the recommendation of the manufacturer.

4. The Operating Procedure, which has been approved, shall be provided to District personnel on request.

5. A maintenance/repair log shall be kept for this scrubber. The log shall be maintained current, on-site for a minimum of 5 years and provided to District personnel on request.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

10. <u>SCRUBBER - FUME - MDAQMD PERMIT # C001747:</u>

A Harrington Model BCH 89-5TB Scrubber for collection of HCl, HF and HNO3 (NOx) fumes from the G-line. This unit is equipped with two 7.5 hp Carver Model LAV-O-LONG pumps rated at 360 gal/min; one Harrington 25 hp Model HPC 5425 exhaust fan producing 30,000 ACFM; a Signet Model MK710A pH control system; and related PVC piping, flanges, and appurtenant materials, which allow fumes to be drawn from tank enclosures, and ducting from tanks.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. The owner/operator shall pump out the brine solution to the wastewater treatment facility according to established schedule.

2. The owner/operator (o/o) shall maintain a pH level in this unit in the range of 9.5 - 12.0.

3. The o/o shall operate and maintain this equipment, including but not limited to, the sodium hydroxide system and water systems in strict accord with the recommendation of the manufacturer.

4. The Operating Procedure, which has been approved, shall be provided to District personnel on request.

5. A maintenance/repair log shall be kept for this scrubber. The log shall be maintained current, on-site for a minimum of 5 years and provided to District personnel on request.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

11. SCRUBBER - PRIMARY FUME - MDAQMD PERMIT # C002571:

A tower scrubber, which serves chemical milling tanks K-1 and K-3. This unit is 5 ft in diameter and 7 ft high. This unit handles 400-600 ACFM at 72 degrees F.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. The o/o shall maintain a pH level in this unit in the range of 9.5 - 12.0.

2. The Operating Procedure, which has been approved, shall be provided to District personnel on request.

3. A maintenance/repair log shall be kept for this scrubber. The log shall be maintained current, on-site for a minimum of 5 years and provided to District personnel on request.

4. This equipment shall be operated and maintained in strict accord with the recommendations of the manufacturer.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

12. SOIL REMEDIATION EQUIPMENT - MDAQMD PERMIT # C009235:

Soil Remediation equipment consisting of:

Capacity	Equipment Description
	Nine (9) Soil gas extraction wells

Fluidized bed carbon adsorber with steam desorber and chilled water condenser at 450 cfm maximum.
3 Hp regenerative blower
Photo Ionization Detector (PID) Equipment
14 ft. 7 in. stack
2.5 hp desorb to condenser blower
90,000 BTU/hr rated chiller

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. The owner/operator (o/o) shall install, operate and maintain this unit in strict accord with all the information submitted with the application. The application and submittals are incorporated in their entirety into this permit and act as specific limitations on the permit unless specifically exempted hereunder.

2. Flow rates shall be recorded during all sampling collections and analyses.

3. The o/o shall maintain an operational log for this equipment. This log shall be kept current for the duration of the project and shall be made available to District personnel upon request. The log shall include:

   a. Sampling flow rate, analyses, calibration gas concentrations, date of measurements, and operator identification for all analyses performed on this equipment.
   b. Cumulative monthly flow rates (based on blower settings),
   c. Phase 1 Carbon bed regeneration schedule and Phase 2 Carbon canister change-out dates.

4. This equipment shall not vent more than one pound per day of NMOC to the atmosphere, verified during initial outlet duct sampling, bi-weekly sampling and with subsequent monthly flow rate records. Bi-weekly sampling is not required if the unit does not operate during the period.

5. In Phase 1, the o/o shall regenerate the fluidized bed carbon adsorbtion media as needed to control emissions and maintain the collection efficiency exceeding 85%. In phase 2, the vacuum canisters shall be changed out to maintain the collection efficiency in excess of 85%.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

13. <u>PAINT SPRAY BOOTH - MDAQMD PERMIT # S000393:</u>

A custom made unit 20 ft W by 14 ft H by 80 ft long This unit uses airless spray guns

actuated by plant air, with water type filtering. The exhaust is 30,000 ACFM driven by a 25 hp electric motor. The water circulation pump is 10 hp.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. All coatings, diluents, thinners and solvents shall comply with District Rule 442 in its entirety.

2. A daily log shall be maintained of the VOC emissions from this facility, which contains at least the following items:
   a. Equipment used to apply coating.
   b. Type of coating used and its VOC limit under each of the above applicable Rules.
   c. Quantity of coating used and its VOC content.
   d. Total VOCs generated by B. and C. above if covered by the above applicable Rules.

3. This log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request. (NOTE: The daily log information provides a basis for the Toxic Emission Inventory required by AB 2588.)

4. This equipment shall be operated in strict accord with those recommendations of the manufacturer, or if manufactured by the applicant, approved by the District APCO.

5. Only High Volume Low Pressure spray equipment shall be used for applying coatings in this booth.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

14. <u>SPRAY BOOTH, EPOXY PRIMER - MDAQMD PERMIT # S010071</u>:
Booth measures 17’ L x 14’ W x 9’ H. Exhaust filtering through 3-stages of exhaust filters. HEPA Filters are used for the final stage to control emissions of strontium chromate @ 99.97% efficiency. HEPA filter model #01XS-24Z24Z12: size 24” x 24” x 11.5” dimensions. Exhaust fan 10 hp motor w/fan rating of 12600 acfm @ 2.5” s.p. Booth is heated with natural gas heater to maintain 85 degree F.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. Operation of this equipment shall be conducted in compliance with data and specifications submitted with the application under which this permit is issued unless

otherwise noted below.

2. A daily log shall be maintained of the VOCs used and/or emitted from this facility. The log shall contain at least the following:
a. Equipment by permitted number, or name of operation for unpermitted equipment, that uses material that contain VOC.
b. Type of material, its use, and its applicable VOC limit in pounds per gallon (or grams per liter), by District Rule or Rules.
c. Manufacturer of material, manufacturer product name, and/or code number.
d. Quantity of each coating, solvent used, and its VOC content. (Note: Units must be consistent). If quantity used is in gallons (or liters), the VOC must be in pounds per gallon (or grams per liter). Units used in item B and D must be the same.
e. Quantity of acetone usage in gallons (or liters) per day.
f. Copies of the Environmental Data Sheet and/or Material Safety Data Sheet (MSDS) for each coating, diluents, thinner, and solvent used.
g. Differential pressure across outlet filters.

3. The VOC log shall be kept current, on-site and available for 5 years, and provided to District, state or federal personnel on request. (NOTE: The daily log information provides a basis for the Toxic Emission Inventory required by AB-2588 and Title III requirements).

4. Discharge filters shall be installed and maintained in a tightly mounted and dimensionally stable condition, free from excessive deposits or interference with airflow passages. Differential pressure drops across the discharge filters shall be maintained with the recommendations by the manufacturer/design value.

5. All coatings, diluents, thinners, and solvents shall comply with District rules 442, 1115, and 1118 in their entirety. These rules pertain to Photochemically Reactive Solvents, Coating of Metal Parts and Products, and Aerospace Coating Operations respectively. Total Spray Booth VOC emissions shall be less than 7 lbs/day.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

15. <u>PROCESS TANK - MIXED ACID (HF & HNO3), MILLING TITAINIUM - MDAQMD PERMIT # T000389:</u>

Tank No. C-2, which is a PVC lined stainless steel tank. This tank is 27 ft by 6.4 ft and 12 ft deep. This tank uses concentrated acid at 110 degrees F at an operating capacity of 14, 250 gallons.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. This tank shall not be used unless it is vented to the properly functioning scrubber under valid District permit C001571.

2. A log shall be maintained weekly, which contains the following:
   a. Daily production of all pump-outs;
   b. All additions to the tank;
   c. Amount of metal removed.

   This log shall be maintained current, on-site for a minimum of 5 years and provided to District personnel on request.

3. This process shall be limited to use on titanium products, parts, and/or materials.

4. The Operating Procedure, which has been established, shall be provided to District personnel on request.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

16. <u>PROCESS TANK- -NITRIC ACID MILLING TITANIUM - MDAQMD PERMIT # T000391:</u>

Tank No. C-4, which is PVC lined stainless steel tank, 27 ft by 7.7 ft by 5.5 ft deep. Tank C-4 is a pickling tank for cleaning titanium parts following chemical milling. Milling does not occur within this tank. Tank operations occur at ambient temperatures and tank-operating capacity is 6426 gallons.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. This tank shall not be used unless it is vented to the properly functioning scrubber under valid District permit C001571.

2. A log shall be maintained weekly, which contains the following:
   a. Daily production of all pump-outs;
   b. All additions to the tank;
   c. Amount of metal removed.

   This log shall be maintained current, on-site for a minimum of 5 years and provided to District personnel on request.

3. This process shall be limited to use on titanium products, parts, and/or materials.

4. The Operating Procedure, which has been established, shall be provided to District personnel on request.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

17. <u>PROCESS TANK - HEATED CAUSTIC FOR MILLING ALUMINUM - MDAQMD PERMIT # T000394:</u>

Tank No. A-1, which is of mild steel, to contain 11% sodium hydroxide at 200 degrees F. This tank is approximately 30 ft by 10 ft by 23 ft deep with an operating capacity of 49,500 gallons.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. The temperature of this tank shall not exceed 220 degrees F.

2. A log shall be maintained weekly, which contains the following:
   a. Daily production of all pump-outs;
   b. All additions to the tank;
   c. Amount of metal removed.

   This log shall be maintained current, on-site for a minimum of 5 years and provided to District personnel on request.

3. This process shall be limited to use on aluminum products, parts, and/or materials.

4. The Operating Procedure, which has been established, shall be provided to District personnel on request

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

18. <u>PROCESS TANK - HEATED CAUSTIC FOR MILLING ALUMINUM - MDAQMD PERMIT # T000395:</u>

Tank No. A-2, which is mild steel for using 25 % sodium hydroxide at 210 degrees F. This tank is approximately 30 ft by 6 ft by 24 ft deep with an operating capacity of 28,500 gallons.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE

VERSION = 07/25/77

1. The temperature of this tank shall not exceed 220 degrees F.

2. A log shall be maintained weekly, which contains the following:
   a. Daily production of all pump-outs;
   b. All additions to the tank;
   c. Amount of metal removed.

   This log shall be maintained current, on-site for a minimum of 5 years and provided to District personnel on request.

3. This process shall be limited to use on aluminum products, parts, and/or materials.

4. The Operating Procedure, which has been established, shall be provided to District personnel on request.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

19. PAINT DIP TANK (MASKANT) - MDAQMD PERMIT # T000564:

Tank, which is 13.3 ft by 5 ft by 6 ft deep, with an operating capacity of 2800 gallons. This tank is equipped with a cover lid and a drip tray.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. This equipment shall be operated and maintained in strict accord with the recommendations of the manufacturer and/or sound engineering principles which produce the minimum emissions of contaminants.

2. A tight fitting cover shall be provided and the tank kept closed with it when not in use.

3. A log shall be maintained which records the time and date and the duration of periods the lid is off. This log shall be maintained current, on-site for a minimum of 5 years and provided to District personnel on request.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

20. PROCESS TANK - MIXED ACID (HF 7 HNO3) FOR MILLING TITANIUM - MDAQMD PERMIT # T001575:

Tank No. C-1, which is PVC lined stainless steel. This tank is 27 ft 6.4 ft and 10.6 ft deep. This tank uses concentrated acids to mill titanium at 110 degrees F.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. This tank shall not be used unless it is vented to the properly functioning scrubber under valid District permit C001571.

2. A log shall be maintained weekly, which contains the following:
   a. Daily production of all pump-outs;
   b. All additions to the tank;
   c. Amount of metal removed.

   This log shall be maintained current, on-site for a minimum of 5 years and provided to District personnel on request.

3. This process shall be limited to use on titanium products, parts, and/or materials.

4. The Operating Procedure, which has been established, shall be provided to District personnel on request.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

21. <u>STORAGE TANK - HYDROCHLORIC ACID - MDAQMD PERMIT # T001596:</u>

Tank HCl ST, which is cross-linked polyethylene for containing 35 % HCl at ambient temperatures. The tank is 9.8 ft in diameter and 11.3 ft deep with an operating capacity of 6500 gallons.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. This tank shall not be used unless it is vented to the properly functioning scrubber under valid District permit C001591

2. The tank shall be closed at all times when it is filled with process fluid.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

22. STORAGE TANK - FOR MIXED ACID (HF, HCl & HNO3) - MDAQMD PERMIT # T002062:

Tank No. 404, which is cross-linked polyethylene construction for concentrated acids at ambient temperature. The tank is about 10 ft in diameter by 12 deep with an operating capacity of 6500 gallons.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. This equipment shall not be operated unless it is vented to the Intergraded Dry Scrubber filled w/magnesium oxide as absorbent contained therein (55 gallon drum).

2. A log shall be maintained weekly, which contains the following:
   a. Daily production of all pump-outs;
   b. All additions to the tank;

   This log shall be maintained current, on-site for a minimum of 5 years and provided to District personnel on request.

3. The tank shall be closed at all times when it is filled with process fluid.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

23. STORAGE TANK - MIXED ACIDS (HF, HCl & HNO3) - MDAQMD PERMIT # T002063:

Tank No. E-1, which is cross-linked polyethylene for concentrated acids at ambient temperature. The tank is 9.9 ft. diameter x 11.5 ft. deep with an operating capacity of 6500 gallons.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. This equipment shall not be operated unless it is vented to the Intergraded Dry Scrubber filled w/magnesium oxide as absorbent contained therein (55 gallon drum).

2. A log shall be maintained weekly, which contains the following:
   a. Daily production of all pump-outs;
   b. All additions to the tank;

This log shall be maintained current, on-site for a minimum of 5 years and provided to District personnel on request.

3. The tank shall be closed at all times when it is filled with process fluid.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

24. STORAGE TANK - MIXED ACIDS (HF, HCl AND HNO3) - MDAQMD PERMIT # T002065:

Tank No. S-5, which is cross-linked polyethylene for concentrated acids at ambient temperatures. The tank is 12 ft in diameter and about 10 ft deep with an operating capacity of 8500 gallons.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. This equipment shall not be operated unless it is vented to the Intergraded Dry Scrubber filled w/magnesium oxide as absorbent contained therein (55 gallon drum).

2. A log shall be maintained weekly, which contains the following:
   a. Daily production of all pump-outs;
   b. All additions to the tank;

   This log shall be maintained current, on-site for a minimum of 5 years and provided to District personnel on request.

3. The tank shall be closed at all times when it is filled with process fluid.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

25. STORAGE TANK - MIXED ACIDS (HF, HCl AND HNO3) - MDAQMD PERMIT # T002069:

Tank S-1, which is cross-linked polyethylene for concentrated acids at ambient temperatures. The tank is about 10 ft in diameter and 12 ft deep with an operating capacity of 6500 gallons.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. This equipment shall not be operated unless it is vented to the Intergraded Dry Scrubber filled w/magnesium oxide as absorbent contained therein (55 gallon drum).

2. A log shall be maintained weekly, which contains the following:
   a. Daily production of all pump-outs;
   b. All additions to the tank;

   This log shall be maintained current, on-site for a minimum of 5 years and provided to District personnel on request.

3. The tank shall be closed at all times when it is filled with process fluid.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

26. <u>STORAGE TANK- MIXED ACIDS (HF & HNO3) - MDAQMD PERMIT # T002489:</u>

Tank D-7, which is of cross-linked Polyethylene construction. This tank is 12 ft in diameter and 10.3 ft deep with a capacity of 8,500 gallons. This tank is used to hold concentrated HF and HNO3 at ambient temperatures.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. This tank shall remain closed except when it is out of service for maintenance and is clean and empty.

2. This equipment shall not be operated unless it is vented to the Intergraded Dry Scrubber filled w/magnesium oxide as absorbent contained therein (55 gallon drum).

3. The control equipment shall be kept in good operating condition at all times.

4. The owner/operator shall keep a log of all dates of inspections, descriptions of repairs/maintenance on the air pollution control equipment. The log shall be maintained current, on-site for a minimum of 5 years and provided to District personnel on request.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

27. <u>STORAGE TANK - MIXED ACIDS (CONCENTRATED HF AND NITRIC) - MDAQMD PERMIT # T002490:</u>

Tank D-8, which is of cross-linked Polyethylene construction. This tank is 12 ft in diameter and 10.3 ft deep with a capacity of 8,500 gallons. This tank is used to hold concentrated HF and HNO3 at ambient temperatures.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. This tank shall remain closed except when it is out of service for maintenance and is clean and empty.

2. This equipment shall not be operated unless it is vented to the Intergraded Dry Scrubber filled w/magnesium oxide as absorbent contained therein (55 gallon drum).

3. The control equipment shall be kept in good operating condition at all times.

4. The owner/operator shall keep a log of all dates of inspections, descriptions of repairs/maintenance on the air pollution control equipment. The log shall be maintained current, on-site for a minimum of 5 years and provided to District personnel on request.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

28. <u>STORAGE TANK (HF, HNO3 AND HCL) - MDAQMD PERMIT # T002491:</u>

Tank D-9, which is of cross-linked Polyethylene construction. This tank is 9.9 ft in diameter and 11.5 ft deep with a capacity of 6,500 gallons. This tank is used to hold dilute acids at ambient temperatures.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. This tank shall remain closed except when it is out of service for maintenance and is clean and empty.

2. This equipment shall not be operated unless it is vented to the Intergraded Dry Scrubber filled w/magnesium oxide as absorbent contained therein (55 gallon drum).

3. The control equipment shall be kept in good operating condition at all times.

4. The owner/operator shall keep a log of all dates of inspections, descriptions of repairs/maintenance on the air pollution control equipment. The log shall be maintained current, on-site for a minimum of 5 years and provided to District personnel on request.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

29. STORAGE TANK (CONCENTRATED HF, HNO3 & HCL) - MDAQMD PERMIT # T002492:

Tank D-10, which is of cross-linked Polyethylene construction. This tank is 9.9 ft in diameter and 11.5 ft deep with a capacity of 6,500 gallons. This tank is used to hold concentrated HF, HCl and HNO3 at ambient temperatures.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. This tank shall remain closed except when it is out of service for maintenance and is clean and empty.

2. This equipment shall not be operated unless it is vented to the Intergraded Dry Scrubber filled w/magnesium oxide as absorbent contained therein (55 gallon drum).

3. The control equipment shall be kept in good operating condition at all times.

4. The owner/operator shall keep a log of all dates of inspections, descriptions of repairs/maintenance on the air pollution control equipment. The log shall be maintained current, on-site for a minimum of 5 years and provided to District personnel on request.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

30. PROCESS TANK: MIXED ACIDS (HF, HCL, NITRIC) - MDAQMD PERMIT # T002493:

Tank G-1, which is of cross-linked Polyethylene construction. This tank is approximately 12 ft in diameter and 6.0 ft deep with a capacity of 4,700 gallons. This tank is used to hold concentrated HF, HCl and HNO3 at 150 degrees Fahrenheit.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. This tank shall not be used unless it is vented to the properly functioning scrubber under valid District permit C001747.

2. A log shall be maintained weekly, which contains the following:
   a. Daily production of all pump-outs;
   b. All additions to the tank; and
   c. Amount of metal removed.

   This log shall be maintained current, on-site for a minimum of 5 years and provided to District personnel on request.

3. This process shall be limited to use on steel products, parts, and/or materials.

4. The Operating Procedure, which has been established, shall be provided to District personnel on request.

5. Air in conjunction with a surfactant, FC-95 (by 3M Company, or an equivalent) or a non-reactive gas shall be used to agitate the contents of the process tank.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

31. PROCESS TANK: MIXED ACIDS (HF, HCL AND NITRIC) - MDAQMD PERMIT # T002494: Tank G-2, which is of cross-linked Polyethylene construction. This tank is approximately 12 ft in diameter and 6.0 ft deep with a capacity of 4,700 gallons. This tank is used to hold concentrated HF, HCl and HNO3 at 150 degrees Fahrenheit.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. This tank shall not be used unless it is vented to the properly functioning scrubber under valid District permit C001747.

2. A log shall be maintained weekly, which contains the following:
   a. Daily production of all pump-outs;
   b. All additions to the tank; and
   c. Amount of metal removed.

   This log shall be maintained current, on-site for a minimum of 5 years and provided to District personnel on request.

3. This process shall be limited to use on steel products, parts, and/or materials.

4. The Operating Procedure, which has been established, shall be provided to District personnel on request.

5. Air in conjunction with a surfactant, FC-95 (by 3M Company, or an equivalent) or a non-reactive gas shall be used to agitate the contents of the process tank.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

32. PROCESS TANK: MIXED ACIDS (HF, HCL AND NITRIC) - MDAQMD PERMIT # T002495:

Tank G-3, which is of cross-linked Polyethylene construction. This tank is approximately 12 ft in diameter and 6.0 ft deep with a capacity of 4,700 gallons. This tank is used to hold concentrated HF and HNO3 at 150 degrees Fahrenheit.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. This tank shall not be used unless it is vented to the properly functioning scrubber under valid District permit C001747.

2. A log shall be maintained weekly, which contains the following:
   a. Daily production of all pump-outs;
   b. All additions to the tank; and
   c. Amount of metal removed.

   This log shall be maintained current, on-site for a minimum of 5 years and provided to District personnel on request.

3. This process shall be limited to use on steel products, parts, and/or materials.

4. The Operating Procedure, which has been established, shall be provided to District personnel on request.

5. Air in conjunction with a surfactant, FC-95 (by 3M Company, or an equivalent) or a non-reactive gas shall be used to agitate the contents of the process tank.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

33. PROCESS TANK - HYDROCHLORIC ACID FOR PICKLING STEEL - MDAQMD PERMIT # T002496:

Tank, Number G-4, whose construction is cross-linked polyethylene. The tank is approximately 12 ft in diameter and 6 ft deep, whose volume is 4700 gallons. This tank

uses concentrated hydrochloric acid and is heated to allow the temperature range of 90-150 degrees F, as needed.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. This tank shall not be used unless it is vented to the properly functioning scrubber under valid District permit C001747.

2. A log shall be maintained weekly, which contains the following:
   a. Daily production of all pump-outs;
   b. All additions to the tank; and
   c. Amount of metal removed.

   This log shall be maintained current, on-site for a minimum of 5 years and provided to District personnel on request.

3. This process shall be limited to use on steel products, parts, and/or materials.

4. The Operating Procedure, which has been established, shall be provided to District personnel on request.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

34. <u>PROCESS TANK; MIXED ACID (HF, HCL AND NITRIC) - MDAQMD PERMIT # T002497:</u>

Tank H-1, which is of cross-linked Polyethylene construction. This tank is approximately 12 ft in diameter and 6.0 ft deep with a capacity of 4,700 gallons. This tank is used to hold concentrated HCl, HF and HNO3 at 150 degrees Fahrenheit.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. This tank shall not be used unless it is vented to the properly functioning scrubber under valid District permit C001591.

2. A log shall be maintained weekly, which contains the following:
   a. Daily production of all pump-outs;
   b. All additions to the tank; and
   c. Amount of metal removed.

This log shall be maintained current, on-site for a minimum of 5 years and provided to District personnel on request.

3. This process shall be limited to use on steel products, parts, and/or materials.

4. The Operating Procedure, which has been established, shall be provided to District personnel on request.

5. Air in conjunction with a surfactant, FC-95 (by 3M Company, or an equivalent) or a non-reactive gas shall be used to agitate the contents of the process tank.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

35. PROCESS TANK: MIXED ACID (HF, HCL AND NITRIC) - MDAQMD PERMIT # T002498:

Tank H-2, which is of cross-linked Polyethylene construction. This tank is approximately 12 ft in diameter and 6.0 ft deep with a capacity of 4,700 gallons. This tank is used to hold concentrated HF and HNO3 at 150 degrees Fahrenheit.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. This tank shall not be used unless it is vented to the properly functioning scrubber under valid District permit C001591.

2. A log shall be maintained weekly, which contains the following:
   a. Daily production of all pump-outs;
   b. All additions to the tank; and
   c. Amount of metal removed.

   This log shall be maintained current, on-site for a minimum of 5 years and provided to District personnel on request.

3. This process shall be limited to use on steel products, parts, and/or materials.

4. The Operating Procedure, which has been established, shall be provided to District personnel on request.

5. Air in conjunction with a surfactant, FC-95 (by 3M Company, or an equivalent) or a non-reactive gas shall be used to agitate the contents of the process tank.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

36. PROCESS TANK: MIXED ACID (HF, HCL AND NITRIC) - MDAQMD PERMIT # T002499:

Tank H-3, which is of cross-linked Polyethylene construction. This tank is approximately 12 ft in diameter and 6.0 ft deep with a capacity of 4,700 gallons. This tank is used to hold concentrated HF and HNO3 at 150 degrees Fahrenheit.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. This tank shall not be used unless it is vented to the properly functioning scrubber under valid District permit C001591.

2. A log shall be maintained weekly, which contains the following:
   a. Daily production of all pump-outs;
   b. All additions to the tank; and
   c. Amount of metal removed.

   This log shall be maintained current, on-site for a minimum of 5 years and provided to District personnel on request.

3. This process shall be limited to use on steel products, parts, and/or materials.

4. The Operating Procedure, which has been established, shall be provided to District personnel on request.

5. Air in conjunction with a surfactant, FC-95 (by 3M Company, or an equivalent) or a non-reactive gas shall be used to agitate the contents of the process tank.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

37. PROCESS TANK - HYDROCHLORIC ACID FOR PICKLING STEEL - MDAQMD PERMIT # T002500:

Tank number H-5, which is made of cross-lined polyethylene. This tank is approximately 12 ft in diameter and is 6 ft deep, whose volume is 4700 gallons. This tank is equipped with a heater to allow maintaining the temperature at 90-150l degrees F, as needed.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS

RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. This tank shall not be used unless it is vented to the properly functioning scrubber under valid District permit C001591.

2. A log shall be maintained weekly, which contains the following:
   a. Daily production of all pump-outs;
   b. All additions to the tank; and
   c. Amount of metal removed.

   This log shall be maintained current, on-site for a minimum of 5 years and provided to District personnel on request.

3. This process shall be limited to use on steel products, parts, and/or materials.

4. The Operating Procedure, which has been established, shall be provided to District personnel on request.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

38. <u>STORAGE TANK - CAUSTIC SODA - MDAQMD PERMIT # T002503:</u>

Tank D-11, which is 10 ft in diameter and 8 ft deep. This tank is of carbon steel and is approximately 4,700 gallons capacity for 50% sodium hydroxide solution.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. This tank shall remain closed except when it is out of service for maintenance and is clean and empty.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

39. <u>STORAGE TANK - CAUSTIC SODA - MDAQMD PERMIT # T002504:</u>

Tank NaOH ST2, which is 8 ft in diameter and 17.5 ft deep. The tank has an internal steam heater to prevent freezing of the sodium hydroxide solution, which is 50% by weight and is approximately 6,500 gallons capacity.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS

RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. This tank shall remain closed except when it is out of service for maintenance and is clean and empty.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

40. STORAGE TANK: CAUSTIC SODA AND WASTE WATER - MDAQMD PERMIT # T002508:

Tank D-14, which is of cross-linked Polyethylene construction. This tank is approximately 10 ft in diameter and 11.5 ft deep with a capacity of 6,500 gallons. This tank is used to hold aqueous sodium hydroxide at ambient temperatures.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. This tank shall remain closed except when it is out of service for maintenance and is clean and empty.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

41. STORAGE TANK: MIXED ACID (HF, HCL AND NITRIC) - MDAQMD PERMIT # T002509:

Tank T-10, which is of cross-linked Polyethylene construction. This tank is approximately 10 ft in diameter and 11.5 ft deep with a capacity of 6.500 gallons. This tank is used to hold concentrated HF, HCl and HNO3 at ambient temperatures.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. This tank shall remain closed except when it is out of service for maintenance and is clean and empty.

2. A log shall maintain a log which contains at least the following:

   a. Date of inspection;
   b. All repairs/additions made to equipment.

This log shall be maintained current, on-site for a minimum of 5 years and provided to District personnel on request.

3. The owner/operator shall keep a log of all dates of inspections, descriptions of repairs/maintenance on the air pollution control equipment. The log shall be maintained current, on-site for a minimum of 5 years and provided to District personnel on request.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

42. PROCESS TANK- HF AND HNO3 MILLING - MDAQMD PERMIT # T002519:

Tank K-1, which is PVC lined fiberglass construction used for holding concentrated hydrofluoric, nitric and hydrochloric acids. The tank is 10 ft by 4 ft by 54 inches high with a capacity of 1,350 gallons.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. This tank shall be limited to milling steel, titanium and R&D projects.

2. This tank shall not be used unless it is vented to properly operating control equipment under valid District permit C002571.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

43. STORAGE TANK: HF AND NITRIC ETCHANT SOLUTION - MDAQMD PERMIT # T002520:

Tank K-2, which is of cross-linked Polyethylene construction. This tank is approximately 9.9 ft in diameter and 11.5 ft deep with a capacity of 6,500 gallons. This tank is used to hold concentrated HF, HNO3 and hydrochloric acid at ambient temperatures.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. This equipment shall not be operated unless it is vented to the Integrated Dry Scrubber filled with magnesium oxide as absorbent contained therein (55 gallon drum).

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP =

Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

44. PROCESS TANK: HF AND NITRIC FOR CHEMICAL MILLING OF TITANIUM - MDAQMD PERMIT # T002521:

Tank B-7, which is of cross-linked Polyethylene construction. This tank is rectangular shaped, approximately 96 inches long, 60 inches wide, and 60 inches deep with a capacity of ~1,400 gallons. This tank is used to hold concentrated hydroflouric acid (HF) and nitric acid (HNO3) between 90 and 120 degrees Fahrenheit. This tank has a 5 hp auxiliary blower to B-1 fume scrubber manifold, the fume hood has a concentric annular draft ring for fume exhaust to scrubber.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. This equipment shall not be operated unless it is vented to the acid fume scrubber operating under valid District permit C001570, which is under the B-line.

2. A log shall be maintained weekly, which contains the following:
   a. Daily production of all pump-outs;
   b. All additions to the tank;
   c. Amount of metal removed.

   This log shall be maintained current, on-site for a minimum of 5 years and provided to District personnel on request.

3. This process shall be limited to use on titanium products, parts, and/or materials.

4. The Operating Procedure, which has been established, shall be provided to District personnel on request.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

45. CLEANING TANK - NITRIC ACID - MDAQMD PERMIT # T003696:

Tank K-3 is approximately 6 ft by 5 ft by 4 ft deep with an operating capacity of 800 gallons. This tank may operate up to 150 degrees F.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. This equipment shall not be operated unless it is vented to acid fume scrubber operating

under valid District Permit number C002571.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

46. PICKLING TANK – NITRIC ACID - MDAQMD PERMIT # T003697:

Tank C-8 which is 3 ft by 2.8 ft by 3 ft deep and an operating capacity of 150 gallons.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. This tank shall not be used unless it is vented to the properly functioning scrubber under valid District permit C001571.

2. A log shall be maintained weekly, which contains the following:
   a. Daily production of all pump-outs;
   b. All additions to the tank;
   c. Amount of metal removed.

   This log shall be maintained current, on-site for a minimum of 5 years and provided to District personnel on request.

3. This process shall be limited to use on titanium products, parts, and/or materials.

4. The Operating Procedure, which has been established, shall be provided to District personnel on request.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

47. CLEANING TANK – SULFURIC ACID/PHOSPHORIC ACID - MDAQMD PERMIT # T003698:

Tank C-7, which is 3 ft by 2.8 ft by 3 ft deep with an operating capacity of 150 gallons.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. This tank shall not be used unless it is vented to the properly functioning scrubber under valid District permit C001571.

2. A log shall be maintained weekly, which contains the following:

a. Daily production of all pump-outs;
b. All additions to the tank;
c. Amount of metal removed.

This log shall be maintained current, on-site for a minimum of 5 years and provided to District personnel on request.

3. This process shall be limited to use on titanium products, parts, and/or materials.

4. The Operating Procedure, which has been established, shall be provided to District personnel on request.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

48. STORAGE TANK - MIXED ACIDS (HF, HCl & HNO3) - MDAQMD PERMIT # T003699:

Tank, which is cross-linked polyethylene about 10 ft in diameter and 12 ft deep with an operating capacity of 6500 gallons.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. This equipment shall not be operated unless it is vented to the Intergraded Dry Scrubber filled w/magnesium oxide as absorbent contained therein (55 gallon drum).

2. A log shall maintain a log, which contains at least the following:
a. Date of inspection;
b. All repairs/additions made to equipment.

This log shall be maintained current, on-site for a minimum of 5 years and provided to District personnel on request.

3. The tank shall be closed at all times when it is filled with process fluid.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

49. STORAGE TANK - MIXED ACIDS (HF, HCl & HNO3) - MDAQMD PERMIT # T003700:

Tank, which is cross-linked polyethylene for concentrated acids at ambient temperatures. It is about 10 ft in diameter and 12 ft deep with an operating capacity of 6500 gallons.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. This equipment shall not be operated unless it is vented to the Intergraded Dry Scrubber filled w/magnesium oxide as absorbent contained therein (55 gallon drum).

2. A log shall maintain a log, which contains at least the following:
   a. Date of inspection;
   b. All repairs/additions made to equipment.

   This log shall be maintained current, on-site for a minimum of 5 years and provided to District personnel on request.

3. The tank shall be closed at all times when it is filled with process fluid.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

50. <u>STORAGE TANK - MIXED ACIDS (HF, HCl & HNO3) - MDAQMD PERMIT # T003701:</u>

Tank, which is cross-linked polyethylene for concentrated acids at ambient temperatures. The tank is about 10 ft in diameter by 12 ft deep with an operating capacity of 6500 gallons.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. This equipment shall not be operated unless it is vented to the Intergraded Dry Scrubber filled w/magnesium oxide as absorbent contained therein (55 gallon drum).

2. A log shall maintain a log, which contains at least the following:
   a. Date of inspection;
   b. All repairs/additions made to equipment.

   This log shall be maintained current, on-site for a minimum of 5 years and provided to District personnel on request.

3. The tank shall be closed at all times when it is filled with process fluid.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP =

Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

51. STORAGE TANK FOR MIXED ACIDS (HF, HCL & HNO3) - MDAQMD PERMIT # T003702:

Tank, which is cross-linked polyethylene for concentrated acids at ambient temperatures. It is about 10 ft in diameter and 12 ft deep with an operating capacity of 6500 gallons.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. This equipment shall not be operated unless it is vented to the Intergraded Dry Scrubber filled w/magnesium oxide as absorbent contained therein (55 gallon drum).

2. A log shall maintain a log, which contains at least the following:
   a. Date of inspection;
   b. All repairs/additions made to equipment.

   This log shall be maintained current, on-site for a minimum of 5 years and provided to District personnel on request.

3. The tank shall be closed at all times when it is filled with process fluid.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

52. STORAGE TANKS FOR MIXED ACIDS (HF, HCL & HNO3) - MDAQMD PERMIT # T003703:

Tank, which is cross-linked polyethylene for concentrated acids at ambient temperatures. It is about 10 ft in diameter and 12 ft deep with an operating capacity of 6500 gallons.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. This equipment shall not be operated unless it is vented to the Intergraded Dry Scrubber filled w/magnesium oxide as absorbent contained therein (55 gallon drum).

2. A log shall maintain a log, which contains at least the following:
   a. Date of inspection;
   b. All repairs/additions made to equipment.

This log shall be maintained current, on-site for a minimum of 5 years and provided to District personnel on request.

3. The tank shall be closed at all times when it is filled with process fluid.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

53. <u>STORAGE TANKS (EMERGENCY USE) - MDAQMD PERMIT # T004611:</u>

4 Steel Tanks, which are contained in concrete vaults. These tanks are used for the emergency storing of aqueous solutions of sodium hydroxide and may contain amines. During pumping of those solutions from process tanks to these emergency tanks, some emissions to the atmosphere may occur. When the solutions are pumped from these emergency tanks back to the process tanks, emissions are collected by the devices installed for this purpose. Each tank is 22,500 gallons and therefore the fee is based on the total 90,000 gallons.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. These tanks shall be used for emergency storing of process aqueous sodium hydroxide solutions. These periods of storing the solutions are emergencies, which occur infrequently, when normal process operations must be curtailed. The solutions are stored to allow the normal process tanks and their ancillary equipment to be inspected and/or repaired/maintained.

2. These solutions may contain amines.

3. When these tanks are being used, they shall be clearly marked relative to their contents for the duration of their use.

4. The tanks shall be operated and maintained in strict accord with the recommendations of the manufacturer/supplier and/o sound engineering principles which produce the minimum emissions of contaminants.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

54. <u>PROCESS TANK, HYDROFLUORIC AND NITRIC ACID, FOR CHEMICAL MILLING TITANIUM - MDAQMD PERMIT # T005198:</u>

Tank B-1, cross-linked polyethylene construction, 11.5 ft in diameter and 9 ft deep, for concentrated HF and HNO3, at 110 degrees F.

Operating Capacity: 6990 gallons

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. This equipment shall not be operated unless it is vented to acid fume scrubber operating under valid District Permit C001570.

2. A weekly production log of all pump-outs and additions to the tank, and metal removed shall be dept. The log shall be maintained current, on-site for a minimum of 5 years and provided to the District on request.

3. This process tank shall only be used for processing titanium products, parts, and/or materials.

4. The Operating Procedure shall be submitted to District personnel on request.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

55. PROCESS TANK NITRIC ACID, FOR PICKLING TITANIUM - MDAQMD PERMIT # T005199:

Tank B-3, cross-linked construction, 11.5 ft in diameter and 6 ft deep, for concentrated HF and HNO3 at 105 degrees F. Operating Capacity: 4,662 gallons

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. This equipment shall not be operated unless it is vented to acid fume scrubber operating under valid District Permit C001570.

2. A weekly production log of all pump-outs and additions to the tank, and metal removed shall be dept. The log shall be maintained current, on-site for a minimum of 5 years and provided to the District on request.

3. This process tank shall only be used for processing titanium products, parts, and/or materials.

4. The Operating Procedure shall be submitted to District personnel on request.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP =

Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

56. <u>PROCESS TANK, HYDROFLUORIC AND NITRIC ACID, FOR CHEMICAL MILLING TITANIUM - MDAQMD PERMIT # T005200:</u>

Tank B-4, cross-linked polyethylene construction, 10 ft in diameter and 9 ft deep, for concentrated HF and HNO3, at 110 degrees F. Operating Capacity: 5,288 gallons

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. This equipment shall not be operated unless it is vented to acid fume scrubber operating under valid District Permit C001570.

2. A weekly production log of all pump-outs and additions to the tank, and metal removed shall be dept. The log shall be maintained current, on-site for a minimum of 5 years and provided to the District on request.

3. This process tank shall only be used for processing titanium products, parts, and/or materials.

4. The Operating Procedure shall be submitted to District personnel on request.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

57. <u>PROCESS TANK NITRIC ACID, FOR PICKLING TITANIUM - MDAQMD PERMIT # T005201:</u>

Tank B-6, is 10 ft in diameter and 9 ft deep of cross-linked polyethylene construction, for nitric acid (HNO3) chemical milling at ambient temperature. Operating Capacity: 5,288 gallons

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. This equipment shall not be operated unless it is vented to acid fume scrubber operating under valid District Permit C001570.

2. A weekly production log of all pump-outs and additions to the tank, and metal removed shall be dept. The log shall be maintained current, on-site for a minimum of 5 years and provided to the District on request.

3. This process tank shall only be used for processing titanium products, parts, and/or materials.

4. The Operating Procedure shall be submitted to District personnel on request.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

58. PROCESS TANKS, FOR ALODINE CONVERSION COATING - MDAQMD PERMIT # T009802:

A-3, A-4, and A-5 consisting of:
Dip coating of aluminum parts in a system using Alodine 1600 & 1660, Alodine Toner 22, Nitric Acid and Ridoline 4355

Capacity	Equipment Description
28500.0	Tank A-4 – (29.5 ft. L x 5.9 ft. W x 24 ft. H) – Alkaline Cleaning with Ridoline up to 2 vol% (Permit not required, do not include in fee calculation)
28500.0	Tank A-3 – (29.5 ft. L x 5.9 ft. W x 24 ft. H) – Deoxidize with a nitric acid solution
28500.0	Tank A-5 – (29.5 ft. L x 5.0 ft. W x 11.0 ft. H) – Alodine Conversion Coating with Alodine 1600 at 0.25 wt.% as sodium dichromate; Alodine 1660 at 2 vol.% & Alodine Toner 22 at 1.5 vol.%.
85500.0	

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. This equipment shall be installed, operated, and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.

2. The o/o shall maintain an operations log for this unit current and on-site (or at a central location) for a minimum of five (5) years, and this log shall be provided upon request. The log shall include, at a minimum, the information specified below:

   a. Date and amount of solutions add to each tank;
   b. Length of time each tank is agitated after new solutions are added;

c. The maximum daily temperature of the solution in Tank A-5; and
d. Date and time of all accidental releases of material to the atmosphere.

3. The tank, Tank A-5, that contains the Alodine 1600, 1660 and Toner 22 shall not be heated to more than 140 deg. F.

4. Tank A-5 should be equipped with temperature sensors that measure the temperature of the solution to within 5 deg. F.

5. Tank A-5 shall be steam and/or electrically heated.

6. The tanks in this line shall not be subjected to rectification. Tanks A-4 and A-5 shall not be subject to air sparging or other mixing methods which aerate the solution. The solution in Tank A-3 shall be mixed by air sparging not to exceed five minutes per day.

7. This process line shall not be used for chemical etching or milling.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

59. MASKANT DIP TANK - MDAQMD PERMIT # T010040:

Maskant Dip Tank consisting of:
Tank which is 36" L x 19.5" W x 19.5" H, with an operating capacity of 59 gallons. This tank is equipped with a cover lid.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77

1. This equipment shall be operated and maintained in strict accord with the recommendations of the manufacturer and/or sound engineering principles which produce the minimum emissions of contaminants.

2. A tight fitting cover shall be provided and the tank kept closed with it when not in use.

3. A log shall be maintained which records the time and date and the duration of periods when the lid is opened. Also record the date and the amount (gallons, pounds, etc.) of maskants and other agents added to the tank. This log shall be maintained current, on-site for a minimum of five (5) years and provided to District personnel on request.

4. This Maskant Dip Tank must be located inside of the Maskant Spray Booth on Permit S000393.

5. Whenever the cover is open and/or parts are being coated and/or dried the exhaust fan

and water circulation system listed on Permit S000393 must be properly operating.

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations;* Version in SIP = Current: Approved: 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]

PART IV
STANDARD FEDERAL OPERATING PERMIT CONDITIONS

A. STANDARD CONDITIONS:

1. If any portion of this Federal Operating Permit is found to be invalid by the final decision of a court of competent jurisdiction the remaining portion(s) of this Federal Operating Permit shall not be affected thereby.
[40 CFR 70.6(a)(5); Rule 1203(D)(1)(f)(i)]

2. Owner/Operator shall comply with all condition(s) contained herein. Noncompliance with any condition(s) contained herein constitutes a violation of the Federal Clean Air Act and of MDAQMD Regulation XII and is grounds for enforcement action; termination, revocation and re-issuance, or modification of this Federal Operating Permit; and/or grounds for denial of a renewal of this Federal Operating Permit.
[40 CFR 70.6(a)(6)(i); Rule 1203(D)(1)(f)(ii)]

3. It shall not be a defense in an enforcement action brought for violation(s) of condition(s) contained in this Federal Operating Permit that it would have been necessary to halt or reduce activity to maintain compliance with those condition(s).
[40 CFR 70.6(a)(6)(ii); Rule 1203(D)(1)(f)(iii)]

4. This Federal Operating Permit may be modified, revoked, reopened or terminated for cause.
[40 CFR 70.6(a)(6)(iii); Rule 1203(D)(1)(f)(iv)]

5. The filing of an application for modification; a request for revocation and re-issuance; a request for termination; notifications of planned changes; or anticipated noncompliance with condition(s) does not stay the operation of any condition contained in this Federal Operating Permit.
[40 CFR 70.6(a)(6)(iii); Rule 1203(D)(1)(f)(v)]

6. The issuance of this Federal Operating Permit does not convey any property rights of any sort nor does it convey any exclusive privilege.
[40 CFR 70.6(a)(6)(iv); Rule 1203(D)(1)(f)(vi)]

7. Owner/Operator shall furnish to the MDAQMD, within a reasonable time as specified by the MDAQMD, any information that the MDAQMD may request in writing.
[40 CFR 70.6(a)(6)(v); Rule 1203(D)(1)(f)(vii)]

8. Owner/Operator shall furnish to District, state or federal personnel, upon request, copies of any records required to be kept pursuant to condition(s) of this Federal Operating Permit.
[40 CFR 70.6(a)(6)(v); Rule 1203(D)(1)(f)(viii)]

9. Any records required to be generated and/or kept by any portion of this Federal Operating Permit shall be retained by the facility Owner/Operator for at least five (5) years from the date the records were created.
[40 CFR 70.6(a)(3)(ii)(B); Rule 1203(D)(1)(d)(ii)]

10. Owner/Operator shall pay all applicable fees as specified in MDAQMD Regulation III, including those fees related to permits as set forth in Rules 301 and 312.
[40 CFR 70.6(a)(7); Rule 1203(D)(1)(f)(ix)]

11. Owner/Operator shall not be required to revise this permit for approved economic incentives, marketable permits, emissions trading or other similar programs provided for in this permit.
[40 CFR 70.6(a)(8); Rule 1203(D)(1)(f)(x)]

12. Compliance with condition(s) contained in this Federal Operating Permit shall be deemed compliance with the Applicable Requirement underlying such condition(s). The District clarifies that "only" Applicable Requirements listed & identified elsewhere in this Title V Permit are covered by this Permit Shield and does not extend to any unlisted/unidentified conditions pursuant to the requirements of 40 CFR 70.6(f)(1)(i).
[40 CFR 70.6(f)(1)(i); Rule 1203(G)(1)]

13. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to limit the emergency powers of USEPA as set forth in 42 U.S.C. §7603.
[40 CFR 70.6(f)(3)(i); Rule 1203(G)(3)(a)]

14. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to limit liability for violations which occurred prior to the issuance of this Federal Operating Permit.
[40 CFR 70.6(f)(3)(ii); Rule 1203(G)(3)(b)]

15. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to alter any Applicable Requirement Contained in the Acid Rain Program.
[40 CFR 70.6(f)(3)(iii); Rule 1203(G)(3)(c)]

16. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to limit the ability of USEPA or the MDAQMD to obtain information pursuant to other provisions of law including but not limited to 42 U.S.C. §7414.
[40 CFR 70.6(f)(3)(iv); Rule 1203(G)(3)(d)]

17. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to apply to emissions trading pursuant to provisions contained in an applicable State Implementation Plan.
[40 CFR 70.4(b)(12)(ii)(B); Rule 1203(G)(3)(e)]

18. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to apply to changes made which are not expressly allowed by this Federal Operating Permit.

[40 CFR 70.4(b)(14)(iii); Rule 1203(G)(3)(f)]

19. The Permit Shield set forth in Part IV, condition 12, shall not be construed to apply to changes made pursuant to the Significant Permit Modification provisions until such changes are included in this Federal Operating Permit.
[40 CFR 70.5(a)(1)(ii), 70.7(e)(2)(vi); Rule 1203 (G)(3)(g)]

20. If Owner/Operator performs maintenance on, or services, repairs, or disposes of appliances, Owner/Operator shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. These requirements are Federally Enforceable through this Title V Permit.
[40 CFR Part 82, Subpart F]

21. If Owner/Operator performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), Owner/Operator shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart B. These requirements are Federally Enforceable through this Title V Permit.
[40 CFR Part 82, Subpart B]

22. Notwithstanding the testing requirements contained elsewhere in this Title V Permit, any credible evidence may be used to establish violations, including but not limited to; reference test methods, engineering calculations, indirect estimates of emissions, CEMS data, and parametric monitoring data. Data need not be required to be collected in a Title V permit in order to be considered credible.
[Section 113(a) of the Clean Air Act]

PART V
OPERATIONAL FLEXIBILITY

A. ALTERNATIVE OPERATING SCENARIO(S):

1. COATING OPERATIONS SUBJECT TO NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR AEROSPACE MANUFACTURING AND REWORK OPERATIONS, 40 CFR PART 63, SUBPART GG

1a. If in the future the facility performs operations subject to the National Emissions Standard for Hazardous Air Pollutants (NESHAP) for Aerospace Manufacturing and Rework Facilities, those operations must comply with the requirements of that regulation. This Title V Permit and applicable District Permits would require modification to allow Aerospace Manufacturing and Rework Facilities within the Mojave Desert Air Quality Management District jurisdiction.
[40 CFR 63 Subpart GG]
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
[MDAQMD Rule 1203]

1b. If the Owner/Operator performs coating activities that meet the applicability criteria of the above NESHAP, the facility must meet all applicable NESHAP requirements, including the applicable requirements of §63.743 (general standards), §63.745 (primer and topcoat application standard), §63.750 (test methods and procedures), §63.751 (monitoring requirements), §63.752 (recordkeeping requirements), §63.753 (reporting requirements), as well as the applicable requirements of the General Provisions (40 CFR Subpart A). The Owner/Operator must maintain a log to record the scenario under which it is operating.
[40 CFR 63 Subpart GG]
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

B. OFF PERMIT CHANGES:

I. Permittee may make a proposed change to equipment covered by this permit that is not expressly allowed or prohibited by this permit if:
   A. Permittee has applied for and obtained all permits and approvals required by AVAQMD Regulation II and Regulation XIII unless the equipment involved in the change is exempt from obtaining such permits and approvals pursuant to the provisions of Rule 219; and
      1. The proposed change is not:
         a. Subject to any requirements under Title IV of the Federal Clean Air Act; or *[See 1203(E)(1)(c)(i)b.]*
         b. A modification under Title I of the Federal Clean Air Act; or

c. A modification subject to Regulation XIII; and *[See 1203(E)(1)(c)(i) b.]*

d. The change does not violate any Federal, State or Local requirement, including an applicable requirement; and *[See 1203(E)(1)(c)(i)b.]*

e. The change does not result in the exceedance of the emissions allowable under this permit (whether expressed as an emissions rate or in terms of total emissions). *[See 1203(E)(1)(c)(i)b.]*

II. Procedure for "Off Permit" Changes

A. If a proposed "Off Permit Change" qualifies under Part V, Section (B)(I)(A)(1) above, permittee shall implement the change as follows:

1. Permittee shall apply for an Authority To Construct permit pursuant to the provisions of Regulation II. *[See 1203(E)(1)(c)(ii)a.]*
2. In addition to the information required pursuant to the provisions of Regulation II and Regulation XIII such application shall include:
   a. A notification that this application is also an application for an "Off Permit" Change pursuant to this condition; and *[See 1203(E)(1)(c)(ii)b.]*
   b. A list of any new Applicable Requirements which would apply as a result of the change; and *[See 1203(E)(1)(c)(ii)b.]*
   c. A list of any existing Applicable Requirements which would cease to apply as a result of the change. *[See 1203(E)(1)(c)(ii)b.]*
3. Permittee shall forward a copy of the application and notification to USEPA upon submitting it to the District. *[See 1203(E)(1)(c)(ii)c.]*

B. Permittee may make the proposed change upon receipt from the District of the Authority to Construct Permit or thirty (30) days after forwarding the copy of the notice and application to USEPA whichever occurs later. *[See 1203(E)(1)(c)(ii)a. and e.]*

C. Permittee shall attach a copy of the Authority to Construct Permit and any subsequent Permit to Operate which evidences the Off Permit Change to this Title V permit. *[See 1203 (E)(1)(c)(ii)d.]*

D. Permittee shall include each Off-Permit Change made during the term of the permit in any renewal application submitted pursuant to Rule 1202(B)(3)(b). *[See 1203(E)(1)(c)(ii)d.]*

III. Other Requirements:

A. The provisions of Rule 1205 – Modifications do not apply to an Off Permit Change made pursuant to this condition.

B. The provisions of Rule 1203(G) – Permit Shield do not apply to an Off Permit Change made pursuant to this condition. *[See 40 CFR 70.4(b)(i)(B)]*

[Rule 1203(E)(1)(c)]

PART VI
CONVENTIONS, ABREVIATIONS, DEFINITIONS

A. The following referencing conventions are used in this Federal Operating Permit:

40CFR60, Standards of Performance for New Stationary Sources (NSPS)
40CFR60, Appendix F, Quality Assurance Procedures
40CFR61, National Emission Standards for Hazardous Air Pollutants (NESHAPS)
40CFR61, Subpart M, National Emission Standards for Asbestos
40CFR72, Permits Regulation (Acid Rain Program)
40CFR73, Sulfur Dioxide Allowance System
40CFR75, Continuous Emission Monitoring
40CFR75, Subpart D, Missing Data Substitution Procedures
40CFR75, Appendix B, Quality Assurance and Quality Control Procedures
40CFR75, Appendix C, Missing Data Estimating Procedures
40CFR75, Appendix D, Optional SO_2 Emissions Data Protocol
40CFR75, Appendix F, Conversion Procedures
40CFR75, Appendix G, Determination of CO_2 Emissions

B. Other conventions:

1. Unless otherwise noted, a "day" shall be considered a 24 hour period from midnight to midnight (i.e., calendar day).
2. The process unit identifications represent the District permit number designations. These numbers are not sequential. The use of District permit numbers provides continuity between the District and Federal Operating Permit systems.

C. Abbreviations used in this permit are as follows:

CFR	Code of Federal Regulations
APCO	Air Pollution Control Officer
bhp	brake horse power
Btu	British thermal units
CCR	California Code of Regulations
CEMS	continuous emissions monitoring system
CO	carbon monoxide
CO_2	carbon dioxide
District	Mojave Desert Air Quality Management District (formed July 1993)
MDAQMD	Mojave Desert Air Quality Management District (formed July 1993)
MD	Mojave Desert Air Quality Management District (formed July 1993)
SB	San Bernardino County APCD (1975 to formation of MDAQMD)
gr/dscf	grains per dry standard cubic foot
gpm	gallons per minute
gph	gallons per hour
hp	horse power
H&SC	California Health and Safety Code
lb	pounds
lb / hr	pounds per hour
lb / MM Btu	pounds per million British thermal units
MM Btu	million British thermal units
MM Btu/hr	million British thermal units per hour
MW	Megawatt electrical power
MW(e) net	net Megawatt electrical power
NH_3	ammonia

NMOC	non-methane organic compounds
NO_x	oxides of nitrogen
NO_2	nitrogen dioxide
O_2	oxygen
pH	pH (acidity measure of solution)
PM_{10}	particulate matter less than 10 microns aerodynamic diameter
ppmv	parts per million by volume
psig	pounds per square inch gauge pressure
QA	quality assurance
rpm	revolutions per minute
RVP	Reid vapor pressure
SCAQMD	South Coast Air Quality Management District
scfm	standard cubic feet per minute
scfh	standard cubic feet per hour
SIC	Standard Industrial Classification
SIP	State of California Implementation Plan
SO_x	oxides of sulfur
SO_2	sulfur dioxide
tpy	tons per year
TVP	true vapor pressure

APPENDIX "A"

General Provisions Applicability to Subpart GG

(Final amendments to the NESHAP as of March 27, 1998)

1. *General Provisions Applicability to Subpart GG. [63.743(a)] Table 1-- shows how aerospace sources are affected by the General Provisions of 40 CFR part 63, subpart A.*
2. *Requirement to submit a startup, shutdown, and malfunction plan, except for dry particulate filter systems operated per manufacturer's instructions. [63.743(b)]*
3. Requirement to obtain approval to use control device or equipment not listed in the regulation. [63.743(c)]
4. Wastes subject to RCRA are exempt. [63.741(e)]
5. *Space vehicles are exempt from the requirements, except for depainting operations. [63.741(h)].*
6. *Rework operations performed on antique aerospace vehicles or components are exempt. [63.741(j)].*

Test Methods and Procedures

See individual requirements. Also, comply with §63.7 of the General Provisions. [63.749 & 63.750]

Monitoring Requirements

See individual requirements. Also, comply with §63.8(f) and (g) of the General Provisions. [63.751(e) and (f)]

Recordkeeping Requirements

See individual requirements. Also, comply with certain parts of §63.10 of the General Provisions. [63.752(a)]

Reporting Requirements

1. See individual requirements. Also, comply with certain parts of §63.9 and §63.10 of the General Provisions.
2. State approved operating permit application can be used for initial notification if submitted by September 1, 1997. [63.753(a)(2)]

Cleaning Operations

Housekeeping Measures:

1. Must comply with the following requirements unless the cleaning solvent used is identified in Table 1 of §63.744 or contains HAP and VOC below the deminimis levels specified in §63.741(f). [63.744(a)]
2. Place cleaning solvent-laden cloth, paper, or other absorbent applicators in bags or other closed containers upon completing their use. [63.744(a)(1)]
3. Store cleaning solvents (except semi-aqueous) in closed containers. [63.744(a)(2)]

Handwipe:

1. Except for cleaning of spray gun equipment, all hand-wipe cleaning solvents must meet a composition requirement *(see Table 1 of § 63.744)*, have a composite vapor pressure #45 mm Hg at 20°C, or meet the 60 % volume reduction requirements specified in an alternative compliance plan. [63.744(b)]
2. Note the list of *13* cleaning operations exempt from composition, vapor pressure, and volume reduction requirements. [63.744(e)]

Spray gun cleaning:

1. Use one of four specified techniques or their equivalent. [63.744(c)]
2. For enclosed spray gun cleaners, if leaks are found during the required monthly inspection, repair as soon as practicable, but within 15 days. [63.744(c)(1)(ii)]
3. If cleaning solvent solutions that contain HAP and VOC below the de minimis levels are used, those cleaning operations using such solutions are exempt from requirements. [63.744(c)]

Flush Cleaning:

Operating procedures specify emptying used cleaning solvent into enclosed container, collection system, or system with equivalent emission control. [63.744(d)]

Performance Test Periods and Tests:
N/A

Test Methods And Procedures:
Handwipe
1. Composition determination using manufacturer's data. [63.750(a)]
2. Vapor pressure determination using readily available sources such as MSDS if single component; composite vapor pressure determined by manufacturer's supplied data or ASTM E 260-91 and by equation provided for multiple component solvents. [63.750(b)]
Spray gun cleaning
None.
Flush cleaning
None.

Monitoring:
Handwipe
None
Spray gun cleaning Flush cleaning
Monthly visual leak inspection [63.751(a)]

Recordkeeping:
Handwipe
1. If complying with composition requirements, the name, data/calculations, and annual volumes. [63.752(b)(2)]
2. If complying with vapor pressure limit, the name, vapor pressure, data/calculations/test results, and monthly volumes. [63.752(b)(3)]
3. For noncompliant cleaning solvents used in exempt operations, the name, monthly volumes by operation, and master list of processes. [63.752(b)(4)]
Spray gun cleaning
Record all leaks, including source identification and dates leaks found and repaired. [63.752(b)(5)]
Flush cleaning
For semi-aqueous cleaning solvents, the name, data/calculations, and annual volumes. [63.752(b)(2)]

Reporting:
All applicable cleaning operations
Semiannual report: Statement certifying compliance. [63.753(b)(1)(v)]
Handwipe–Semiannual (6 months from the date of notification of compliance status)
1. Noncompliant cleaning solvent used. [63.753(b)(1)(i)]
2. New cleaning solvents and their composite vapor pressure or notification of compliance with composition requirements. [63.753(b)(1)(ii)]
Spray gun cleaning--Semiannual (6 months from the date of notification of compliance status)
1. Noncompliant spray gun cleaning method used. [63.753(b)(1)(iii)]
2. Leaks from enclosed spray gun cleaners not repaired within 15 days. [63.753(b)(1)(iv)]
Shaded areas with bold italics indicate final amendments to the NESHAP as of March 27, 1998

Primer and Topcoat Application Operations

Standards:
Uncontrolled Primers
1. Organic HAP and VOC content limit: 350 grams per liter (g/L) (2.9 lb/gal less water for HAP; and less water and exempt solvents for VOC) as applied. [63.745(c)(1)-(2)]
2. Achieve compliance through: (1) using coatings below content limits, or (2) using monthly

volume-weighted averaging (primers only) to meet content limits. [63.745(e)]

Uncontrolled Topcoats (including self-priming topcoats)
3. Organic HAP and VOC content limit: 420 g/L (3.5 lb/gal less water for HAP; and less water and exempt solvents for VOC) as applied. [63.745(c)(3)-(4)]
4. Same as No. 2 (above) except for topcoats only.

Controlled Primers and Topcoats (including self-priming topcoats)
5. Control system must reduce organic HAP and VOC emissions to the atmosphere $81%, using capture and destruction/removal efficiencies. [63.745(d)]

All Primers and Topcoats
6. Minimize spills during handling and transfer. [63.745(b)]
7. Specific application techniques must be used. [63.745(f)(1)]
8. Exemptions from No. 7 (above) provided for certain situations. [63.745(f)(3)]
9. All application equipment must be operated according to manufacturer's specifications, company procedures, or locally specified operating procedures (whichever is most stringent). [63.745(f)(2)]
10. Operating requirements for the application of primers or topcoats that contain inorganic HAP, including control with either particulate filters (see Tables 1 through 4 of § 63.745) or waterwash system. Painting operation(s) must be shutdown if operated outside manufacturer's specified limits. [63.745(g)(1) through (3)]
11. Exemptions from No. 10 (above) provided for certain application operations. [63.745(g)(4)]

Performance Test Periods and Tests:

Uncontrolled
1. Performance Test Period for coatings not averaged: each 24 hour period; for "averaged" coatings: each 30-day period. [63.749(d)(1)]
Controlled
2. Performance Test Period for noncarbon adsorber: three 1-hour runs; for carbon adsorber: each rolling material balance period. [63.749(d)(1)]
3. Initial performance test required for all control devices to demonstrate compliance with overall control efficiency requirement. [63.749(d)(2)]

Test Methods and Procedures:

Organic HAP
1. Organic HAP level determination procedures. [63.750(c) and (d)]
2. VOC level determination procedures. [63.750(e) and (f)]
3. Overall control efficiency of carbon adsorber system determined using provided procedures; for other control devices, determine capture efficiency and destruction efficiency. For capture efficiency, use Procedure T in Appendix B to 40 CFR 52.741 for total enclosures and 40 CFR 52.741(a)(4)(iii) procedures for all other enclosures. [63.750(g) and (h)]
4. For alternative application methods, first determine emission levels for initial 30-day period or five aircraft using only HVLP or electrostatic, or a time period specified by the permitting agency. Then use alternative application method for period of time necessary to coat equivalent amount of parts with same coatings. Alternative application method may be used when emissions generated during the test period are less than or equal to the emissions generated during the initial 30-day period or five aircraft. Dried film thickness must be within specification for initial 30-day period or five aircraft as demonstrated under actual production conditions. [63.750(i)]

Inorganic HAP
5. Dry particulate filter certification: use Method 319 to meet or exceed the efficiency data points in Tables 1 and 2 of § 63.745 for existing sources, or Tables 3 and 4 of § 63.745 for new sources [63.750(o)]

Monitoring:
1. Carbon adsorbers. [63.751(b)(1) through (7)]
2. Temperature monitoring equipment to be installed, calibrated, maintained, and operated - according to manufacturer's specifications. Use CEMS as an alternative. [63.751(b)(8)]
3. Incinerators. [63.751(b)(9) through (12)]
4. Dry particulate filters and waterwash systems. [63.751(c)]
5. Alternate monitoring method. [63.751(e)]

Recordkeeping:
1. Name and VOC content as received and as applied for all primers and topcoats. [63.752(c)(1)]
Uncontrolled
2. For "compliant" coatings, organic HAP and VOC contents as applied, data/calculations and test results used to determine HAP/VOC contents (Hi and Gi), and monthly usage. [63.752(c)(2)]
3. For "low-HAP content" primers, annual purchase records, and data/calculations and test results used to determine Hi or HAP/VOC content as applied. [63.752(c)(3)]
4. For "averaged" coatings, monthly volume-weighted average values of HAP/VOC content (Ha and Ga), and data/calculations and test results used to calculate Ha and Ga. [63.752(c)(4)]
Controlled
5. For incinerators, overall control efficiency test results/data/calculations used in determining the overall control efficiency; and continuous records of incinerator temperature(s). [63.752(c)(5)]
6. For carbon adsorbers, overall control efficiency and length of rolling period and all supporting test results/data/calculations used in determining the overall control efficiency. [63.752(c)(6)]
Inorganic HAP Particulate
7. Pressure drop across filter or water flow rate through waterwash system once per shift, and acceptable limits. [63.752(d)(1) through (3)]

Reporting:
Semiannual (6 months from the date of notification of compliance status)
1. All instances where organic HAP/VOC limits were exceeded. [63.753(c)(1)(i) and (ii)]
2. Control device exceedances (out-of-compliance). [63.753(c)(1)(iii), (iv), and (v)]
3. Periods when operation not immediately shut down when the pressure drop or water flow rate was outside limits. [63.753(c)(1)(vi)]
4. Statement certifying compliance. [63.753(c)(1)(vii)]
Annual (12 months from the date of notification of compliance status)
5. Number of times the pressure drop or water flow rate limits were exceeded. [63.753(c)(2)]

Depainting Operations

Requirements:
Exemptions
1. Facilities depainting 6 or less completed aerospace vehicles per calendar year. [63.746(a)]
2. Depainting of parts or units normally removed from the plane for depainting (except wings and stabilizers). [63.746(a)(1)]
3. Aerospace vehicles or components intended for public display, no longer operational, and not easily capable of being moved. [63.746(a)(2)]
4. Depainting of radomes and parts, subassemblies, and assemblies normally removed from the primary aircraft before depainting. [63.746(a)(3)]

Standards:

1. Zero organic HAP emissions from chemical strippers or softeners. [63.746(b)(1)]
2. Minimize inorganic HAP emissions when equipment malfunctions. [63.746(b)(2)]
3. Facility (average) allowance for spot stripping and decal removal: 26 gallons of strippers or 190 pounds of HAP per commercial aircraft per year; and 50 gallons of strippers or 365 pounds of HAP per military aircraft per year. [63.746(b)(3)]
4. Follow operating requirements for depainting operations generating airborne inorganic HAP. [63.746(b)(4)]
5. Mechanical and hand sanding are exempt from requirements of §63.746(b)(4). [63.746(b)(5)]
6. Control HAP emissions at 81% efficiency for systems installed before effective date (September 1, 1995), and 95% efficiency for newer systems. [63.746(c)]

Performance Test Periods and Tests:

Organic HAP

1. Initial performance test of all control devices is required to demonstrate compliance with overall control efficiency requirement. [63.749(f)(1), (f)(2), and (f)(3)]
2. Performance Test Period for noncarbon adsorber, three 1-hour test runs; for carbon adsorber, each rolling material balance period. [63.749(f)(1)]
3. Test period for spot stripping and decal removal usage limits: each calendar year. [63.749(f)(1)]

Inorganic HAP

4. Operating requirements specified in § 63.746(b)(4). [63.749(g)]

Test Methods and Procedures:

Organic HAP

1. Overall control efficiency of carbon adsorber system may be determined using specified procedures and equations 9 through 14; for other control devices, must determine capture and destruction efficiencies (use equations 15 through 18 to calculate overall control efficiency). For capture efficiency, use Procedure T in Appendix B to 40 CFR 52.741 for total enclosures and 40 CFR 52.741(a)(4)(iii) procedures for all other enclosures. [63.750(g) and (h)]
2. Spot stripping and decal removal: Procedures are provided for determining volume of chemical strippers (equation 20) *or weight of organic HAP used per aircraft (equation 21).* [63.750(j)]

Inorganic HAP

3. Dry particulate filter certification: use Method 319 to meet or exceed the efficiency data points in Tables 1 and 2 of § 63.745 for existing sources or Tables 3 and 4 of § 63.745 for new sources. [63.750(o)]

Monitoring:

Continuously monitor the pressure drop across filters, or the water flow rate through the waterwash system and read and record the pressure drop, or the water flow rate for waterwash system, once per shift. [63.751(d)]

Recordkeeping:

1. Name and monthly volumes of each chemical stripper used or monthly weight of organic HAP used in chemical strippers. [63.752(e)(1)]
2. For controlled chemical strippers (carbon adsorber), overall control efficiency and length of rolling period and all supporting test results/data/calculations; certification of the accuracy of the device. [63.752(e)(2)]
3. For controlled chemical strippers (other control devices), overall control efficiency and

supporting test results/data/calculations. [63.752(e)(3)]
4. List of parts/assemblies normally removed. [63.752(e)(4)]
5. For nonchemical based equipment, name and type, and malfunction information including dates, description, and alternative methods used. [63.752(e)(5)]
6. For spot stripping and decal removal, volume of stripper or weight of organic HAP used, annual number of aircraft stripped, annual average volume or weight per aircraft, and all data/calculations used to calculate volume or weight per aircraft. [63.752(e)(6)]
7. Pressure drop across filter or the visual continuity of the water curtain and water flow rate for waterwash systems, once per shift and include acceptable limits. [63.752(e)(7)]

Reporting:

Semiannual (6 months from the date of notification of compliance status)
1. 24-hour periods where organic HAP were emitted from depainting operations. [63.753(d)(1)(i)]
2. New/reformulated chemical strippers and HAP contents. [63.753(d)(1)(ii), (iii), and (iv)]
3. New nonchemical depainting techniques. [63.753(d)(1)(v)]
4. Malfunction information on nonchemical depainting techniques including dates, description, and alternative methods used. [63.753(d)(1)(vi)]
5. Periods when operation not immediately shut down when the pressure drop or water flow rate was outside limits. [63.753(d)(1)(vii)]
6. List of new/discontinued aircraft models and, for new models, list of parts normally removed for depainting. [63.753(d)(1)(viii)]
7. Organic HAP control device exceedances. [63.753(d)(3)]
8. Statement certifying compliance. [63.753(d)(1)(ix)]

Annual (12 months from the date of notification of compliance status)
9. Exceedances of average annual volume or weight allowance for spot stripping and decal removal. [63.753(d)(2)(i)]
10. Number of times the pressure drop or water flow rate limits were exceeded. [63.753(d)(2)(ii)]

Maskant Operations

Requirements:

Standards:

Minimize spills during handling and transfer. [63.747(b)]
Uncontrolled Maskants.
1. Organic HAP emissions: *#622 g/l (5.2 lb/gal) (less water) as applied for Type I*; # 160 g/L (1.3 lb/gal) (less water) as applied for Type II. [63.747(c)(1)]
2. VOC emissions: *#622 g/l (5.2 lb/gal) (less water and exempt solvents) as applied for Type I*, #160 g/L (1.3 lb/gal) (less water and exempt solvents) as applied for Type II. [63.747(c)(2)]
3. Exemption for touch-up of scratched surfaces, damaged maskant, and trimmed edges. [63.747(c)(3)]
4. Comply by either: (1) using maskants below content limits, or (2) using monthly volumeweighted averaging provisions described in §63.743(d). [63.747(e)]
Controlled Maskants
5. If control device is used, system must capture and control all emissions from maskant operation and must achieve an overall control efficiency of at least 81%. [63.747(d)]

Performance Test

Periods and Tests:

Uncontrolled
1. Performance Test Period for maskants that are not averaged, each 24-hour period; for maskants that are averaged, each 30-day period (unless otherwise specified). [63.749(h)(1)]

Controlled
2. Performance Test Period for noncarbon adsorber, three 1-hour test runs; for carbon adsorber, each rolling material balance period. [63.749(h)(1)]
3. Initial performance test required for all control devices to demonstrate compliance with overall control efficiency requirement. [63.749(h)(2)]

Test Methods and Procedures:
1. Organic HAP level determination procedures. [63.750(k) and (l)]
2. VOC level determination procedures. [63.750(m) and (n)]
3. Overall control efficiency of carbon adsorber system determined using specified procedures and equations 9 through 14; for other control devices, determine capture and destruction efficiencies (use equations 15 through 18 to calculate overall control efficiency). For capture efficiency, use Procedure T in Appendix B to 40 CFR 52.741 for total enclosures and 40 CFR 52.741(a)(4)(iii) procedures for all other enclosures. [63.750(g) and (h)]

Monitoring:
1. Incinerators and carbon adsorbers: temperature sensors with continuous recorders for incinerators; and install, calibrate, maintain, and operate temperature monitors according to manufacturer's specifications. Use CEMS as an alternative. [63.751(b)]

Recordkeeping:
Uncontrolled Maskants
1. For maskants not averaged, mass of organic HAP and VOC emitted per unit volume of chemical milling maskant (less water for HAP; and less water and exempt solvents for VOC) (H_i and G_i); all data, calculations, and test results; monthly volumes of each maskant. [63.752(f)(1)]
2. For "averaged" maskants, monthly volume-weighted average mass of organic HAP or VOC emitted per unit volume of chemical milling maskant as applied (less water for HAP; and less water and exempt solvents for VOC) (H_a and G_a); all data, calculations, and test results. [63.752(f)(2)]

Controlled Maskants
3. For carbon adsorbers, overall control efficiency and length of rolling period and all supporting test results/data/calculations used in determining the overall control efficiency; certification of the accuracy of the device that measures the amount of HAP or VOC recovered. [63.752(f)(3)]
4. For incinerators, overall control efficiency; test results, data, and calculations used in determining the overall control efficiency; length of rolling material balance period with data and calculations; record of certification of the accuracy of the device that measures amount of HAP or VOC recovered; or record of carbon replacement time for nonregenerative carbon adsorbers; and incinerator temperature(s). [63.752(f)(4)]

Reporting:
Semiannual (6 months from the date of notification of compliance status)
1. Exceedances of organic HAP/VOC limits. [63.753(e)(1) and (2)]
2. Control device exceedances (out of compliance). [63.753(e)(3)]
3. New maskants. [63.753(e)(4)]
4. New control devices. [63.753(e)(5)]
5. Statement certifying compliance. [63.753(e)(6)]